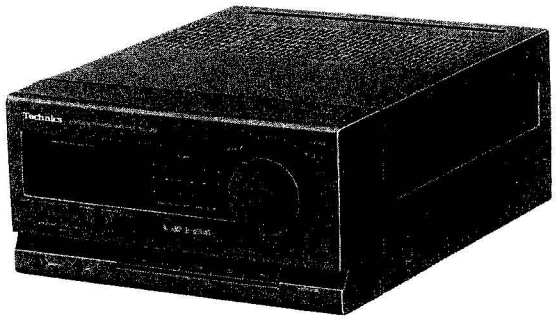
ORDER NO. AD9006164C2

Service Manual

Amplifier

SU-CH9

Stereo Integrated Amplifier



Color

(K)	Black Type
(H)	Gray Type

Area

Country Code	Areas	Color
(E)	Continental Europe	(K)
(EI)	Italy	
(EB)	Great Britain	(H)

System: SC-CH9

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

SPECIFICATIONS (IHF '78)

■ MAIN AMP. SECTION

Power output
DIN 1 kHz THD 1% 6Ω 2×25 W
10 kHz THD 1% 8Ω 2×5 W

Total harmonic distortion
half power at 1 kHz 0.04% (6 ohms)

Headphones output level/impedance
300 mV/330 ohms

■ PRE AMP. SECTION

Input sensitivity/impedance
VCR, VDP 250 mV/27 kilohms

S/N (rated power, 6 ohms)
CD, Tape, VCR, VDP 84 dB (IHF, A 85 dB)

Graphic equalizer
80 Hz, 250 Hz, 1 kHz, 4 kHz, 12.5 kHz, ±10 dB

Muting −20 dB

Super bass (at volume, −70 dB) 60 Hz, +10 dB

Output voltage
VCR REC OUT 150 mV

■ VIDEO SECTION

VCR monitor 1 Vpp/75 ohms

■ GENERAL

Power consumption 230 W

Power supply
For Great Britain AC 50 Hz/60 Hz, 240 V
For others AC 50 Hz/60 Hz, 220 V

Dimensions (W×H×D) 215×110×300 mm
($8^{15}/_{32}$"×$4^{11}/_{32}$"×$11^{13}/_{16}$")

Weight 4.2 kg (9.3 lb.)

Notes:
1. Total harmonic distortion is measured by the digital spectrum analyzer.
2. Specifications are subject to change without notice.
3. Weight and dimensions shown are approximate.

Areas	System	Tuner	Amplifier	CD player	Cassette deck	Speakers
(E, EB)	SC-CH9	ST-CH9L	SU-CH9	SL-CH9	RS-CH9	SB-CH9
(EI)		ST-CH9				

Technics

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

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■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω, 5 W resistor connect both ends of power supply capacitors (C703, C704) in order to discharge the voltage.

(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 220 V/240 V.

Power supply voltage	AC 220 V	AC 240 V
Consumed current 50 Hz	85~255 mA	80~240 mA
Consumed current 60 Hz	80~240 mA	75~225 mA

■ PROTECTION CIRCUITRY

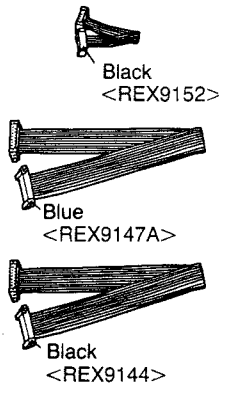
The protection circuitry may have operated if either of the following conditions is noticed:
*No sound is heard when the power is switched ON.
*Sound stops during a performance.
The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

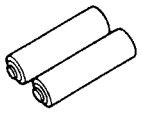
Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ ACCESSORIES

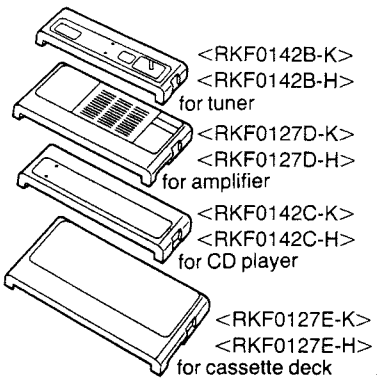
•Flat cables (three)



•Remote control batteries (two) (UM-4, "AAA", R03)

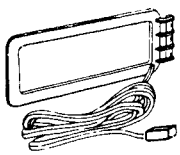


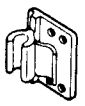
•Back cover (four)



•Headphones cord clamp (one) <RMQ0173>

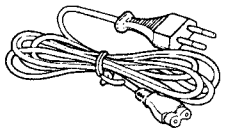
•LW/MW loop antenna (one) and Antenna holder (one) and mounting screws (two)



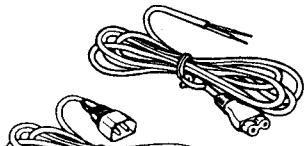


•Attachment plug ...for (EB) area (one) <SJP9009>

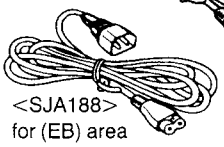
- AC power supply cords (two)
  <SFDAC05E03> ×2
  for (E, EI) areas.



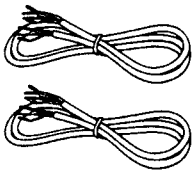
<SJA193> for (EB) area



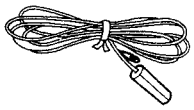
<SJA188>
for (EB) area



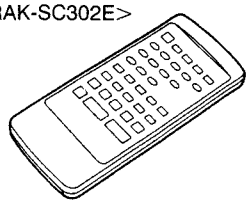
- Speaker cords (two)
  <REC201A25Q>



- FM indoor antenna (one)
  <SSA270M>

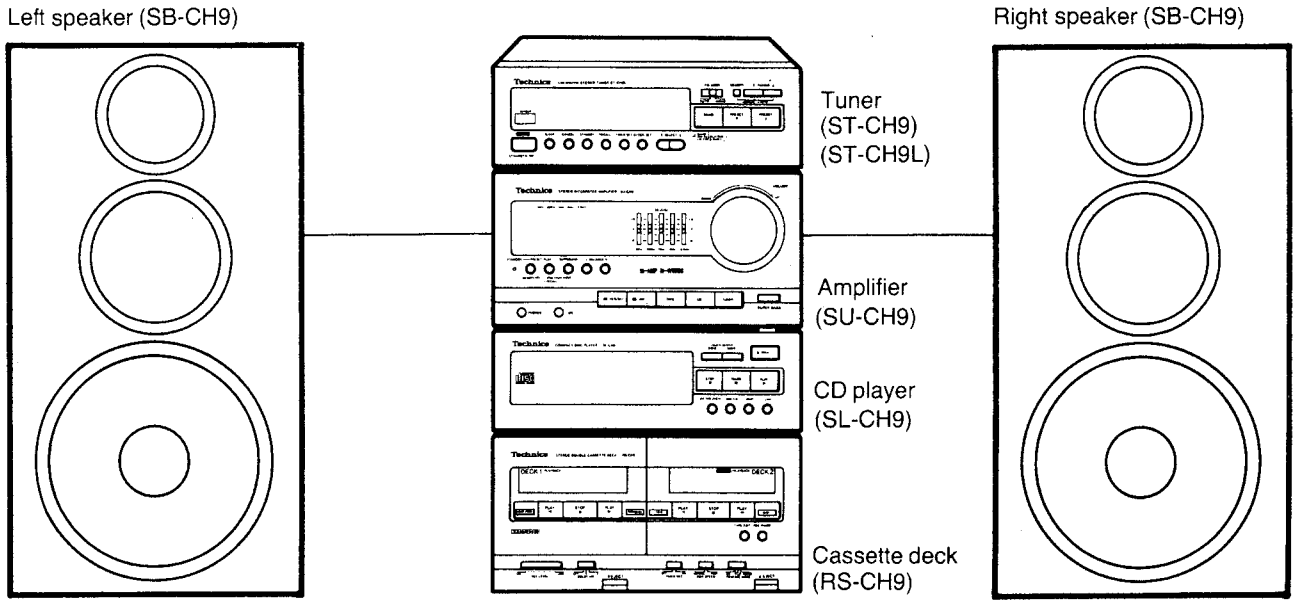


- Remote control transmitter
  <RAK-SC302E>

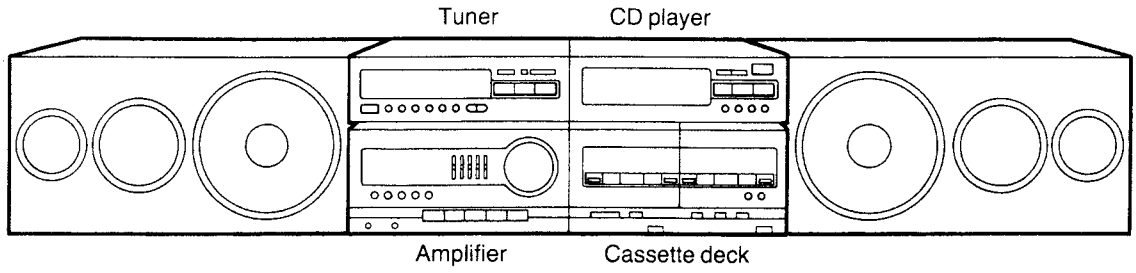


■ HOW TO INSTALL THE SYSTEM

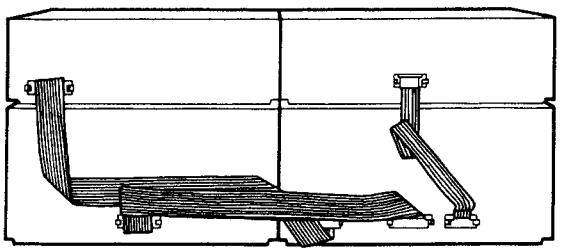
Install the various components as shown in the figure.



Installing the components horizontally



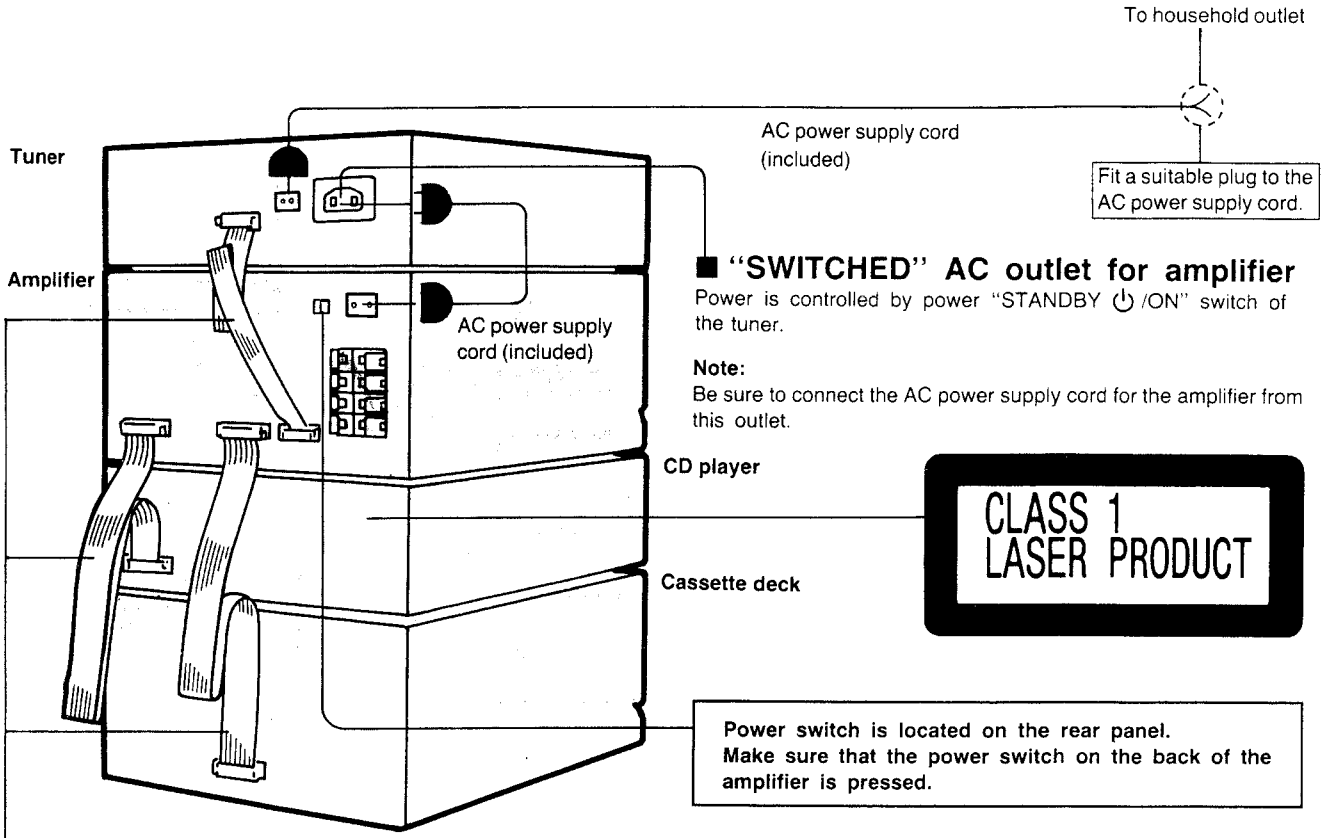
When installing the components horizontally,
fold the flat cable as shown in the figure below.



■ CONNECTIONS

Connect the power cord

Connect the AC power supply cords after all other cables and cords are connected and the back covers are installed.


To household outlet
AC power supply cord (included)
Fit a suitable plug to the AC power supply cord.
Tuner
Amplifier
AC power supply cord (included)
CD player
Cassette deck
CLASS 1
LASER PRODUCT
Power switch is located on the rear panel.
Make sure that the power switch on the back of the amplifier is pressed.

■ "SWITCHED" AC outlet for amplifier

Power is controlled by power "STANDBY ⏻ /ON" switch of the tuner.

Note:
Be sure to connect the AC power supply cord for the amplifier from this outlet.

Connect the flat cable

From amplifier to tuner

(Black) (Black)

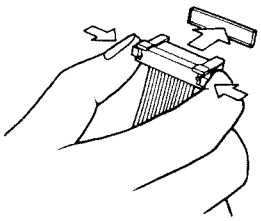
From amplifier to CD player

(Black) (Black)

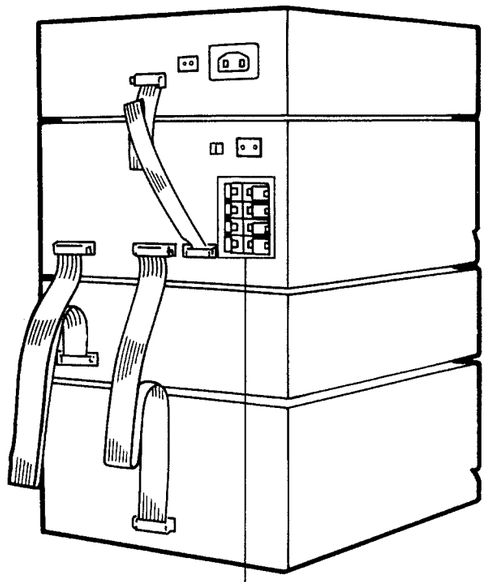
From amplifier to cassette deck

(Blue) (Blue)

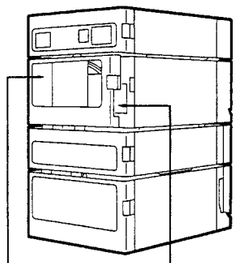
Hold the connector with the recessed part uppermost.



- The white line is at the right.
- Refer to page 3 for the method of connecting the flat cable when installing the components horizontally.



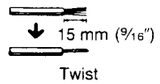
Installing the back cover



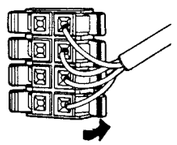
Connect the speaker wires

Align the four wires from the left and right speaker cables with the same colored levers of the speaker terminals, then insert the wires into the respective terminals.

① Twist the wire.



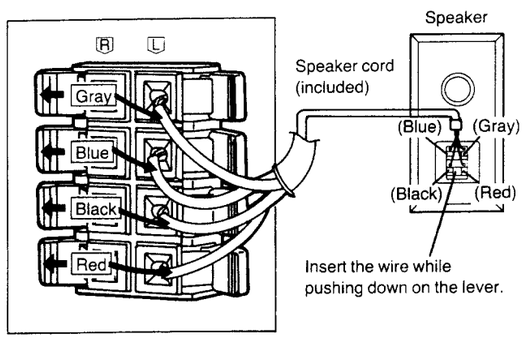
② Push the lever down, and insert the wire.



③ Return the lever. Pull gently on each of the wires to ensure that they will not come out.

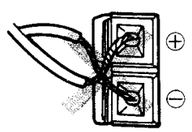
Notice for speaker connections:
Connect each color coded wire of the speaker cable to the corresponding color coded terminal according to the following chart.

Polarity	–	+
High tone	Blue	Gray
Low tone	Black	Red



Do not short the ⊕ and ⊖ speaker leads. If you accidentally short the speaker leads, the protection circuit may operate to protect the circuit from damage, cutting off the sound. In such a case, carry out the following operation.

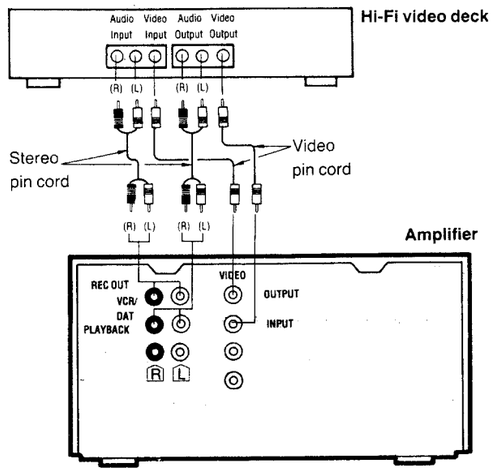
1) Switch OFF the power with the POWER switch on the back of the amplifier.
2) Re-connect the speaker wires correctly to ensure that they are not shorted.
3) Switch ON the power with the POWER switch on the back of the amplifier.



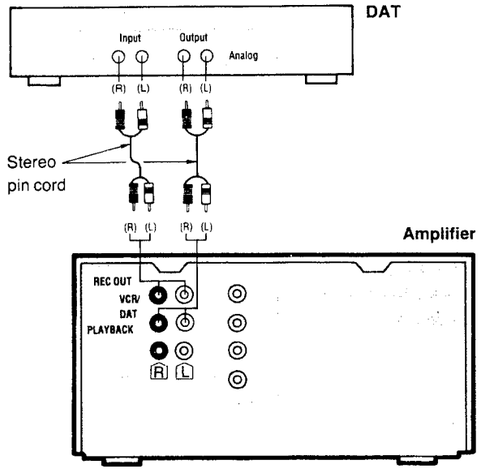
How to connect an external unit

- Refer to the instruction manual of the unit to be connected for details of connecting the unit.
- Consult with your local dealer before connecting a unit other than one of those mentioned below.

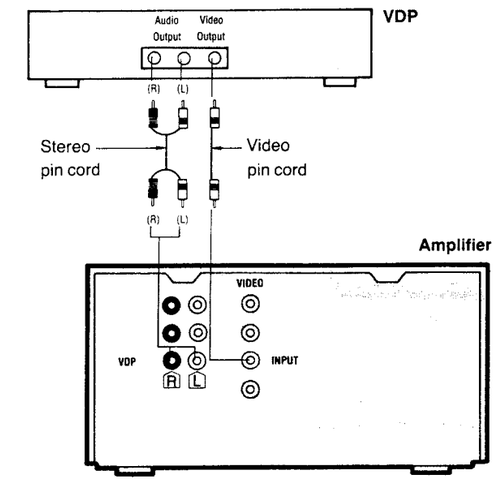
■ Video deck



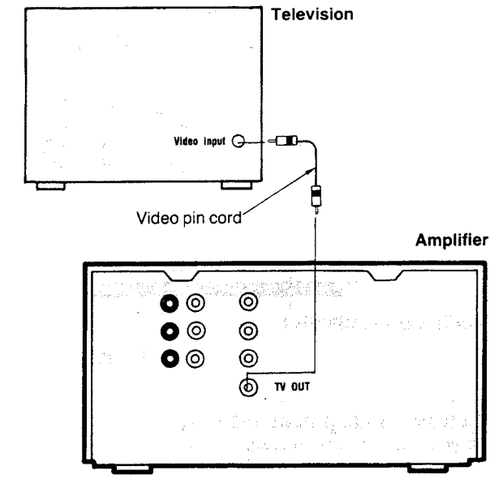
■ DAT (digital audio tape deck)



■ Video disc player



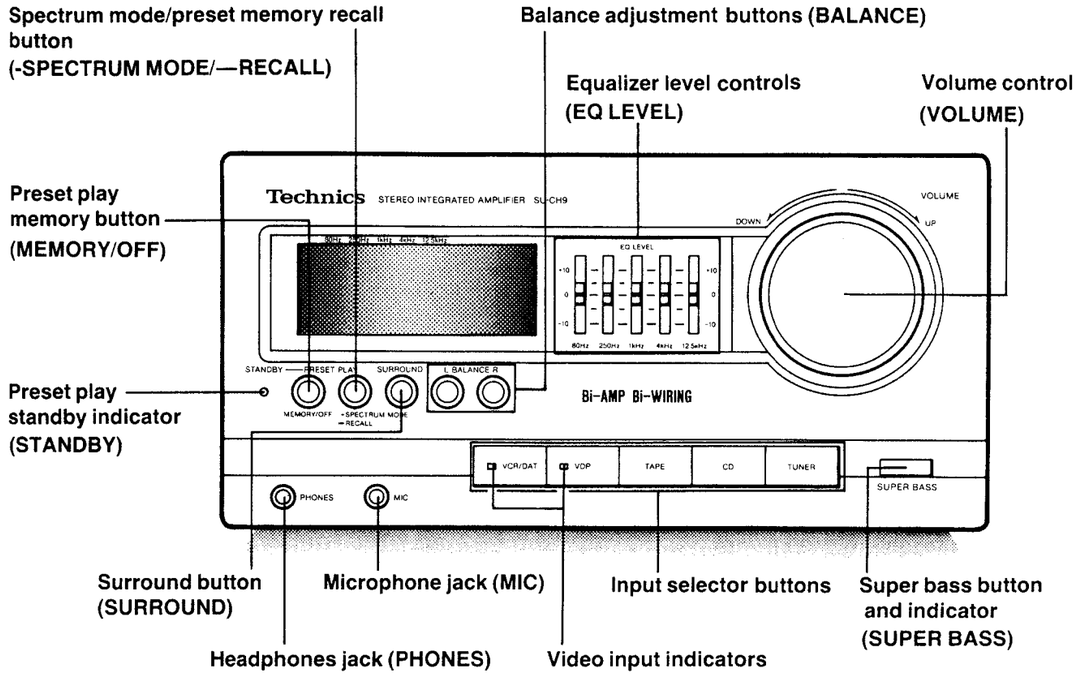
■ Monitor television



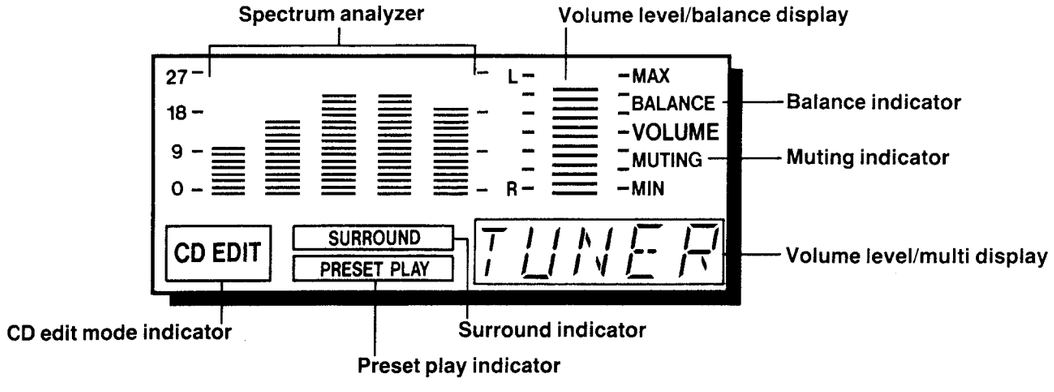
You can connect a television set with a video input terminal to this system.
(You cannot switch over the TV-picture with the tuner of this system. Switch it over at the video deck or the television set.)

■ LOCATION OF CONTROLS

Amplifier



■ Display panel



Spectrum mode/preset memory recall button
Each time this button is pressed, the spectrum analyzer display format changes. (See page 8.) When the button is pressed and held, the sources and volume levels set during preset play operation will be displayed.

Video input indicators
This indicator switches over only when VCR/DAT or VDP is selected.

Preset play standby indicator
This indicator lights when the system is turned off in the preset play mode.

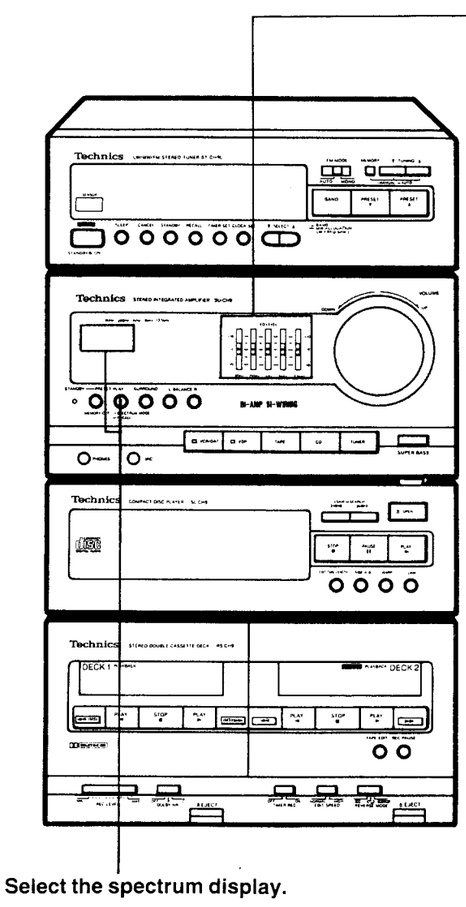
Volume level/multi display
This display area indicates the source selected for playback. It also shows the volume level as it is being adjusted by the volume control.

SU-CH9

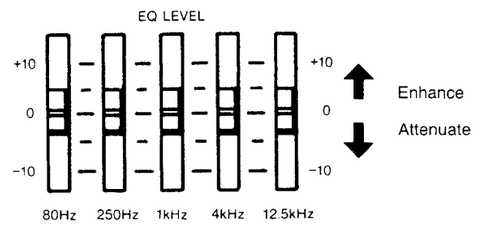
■ OPERATION

Creating your own sound

While listening to the music on a CD, etc., adjust the sound to suit your taste.



Each time you press the button, the spectrum analyzer will switch to one of the display modes shown in the figure at right.

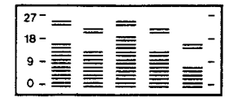


Characteristics of each frequency range

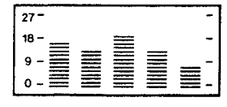
80 Hz: The low bass range
250 Hz: The fundamental tonal range of music
1 kHz: The tonal range which adds tension to the sound
4 kHz: The tonal range which adds gloss to the sound
12.5 kHz: The tonal range which adds glitter to the sound

Spectrum analyzer

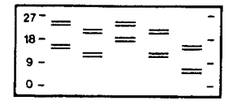
1. **Peak hold mode**
   Indicates the strength and peak value of the sound in each tonal range.



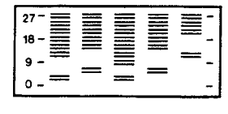
2. **Bar graph mode**
   Indicates the strength of the sound in each tonal range.



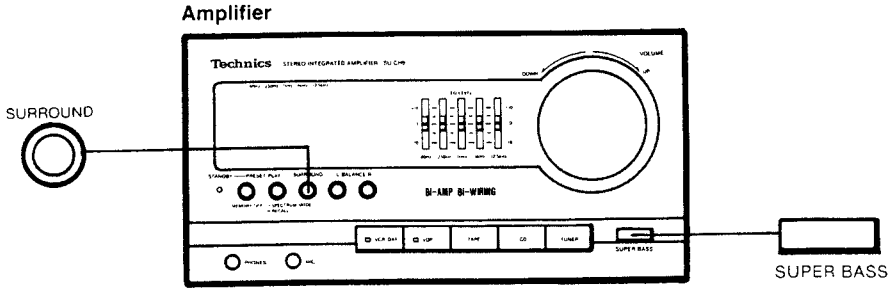
3. **Hustler mode**
   Indicates the peak value of the sound in each tonal range in augmented form.



4. **Aurora mode**
   Indicates the strength and peak value of the sound in each tonal range in inverted form.

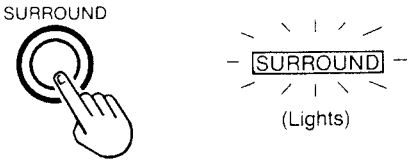


5. **Repeat mode**
   Indicates each of 1 to 4 sequentially for about five seconds at a time.



How to enjoy surround-sound effects

Press the SURROUND button.

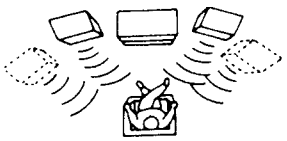


- Press this button once again to cancel the surround effect.

- The surround effect can only be obtained with a stereo performance or stereo broadcast.
- Be sure to cancel the surround-sound effect of this unit when listening to a source that has been surround-recorded.

Surround-sound

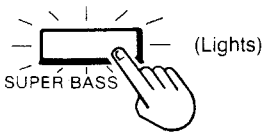
A music signal consists of "direct sound" which produces a sound image having spatial orientation, and "indirect sound" (reverberation: sound which rebounds of a wall, etc.) which imparts presence and spread. The dynamic sound effect of a concert hall, for example, is due to "indirect sound". The surround-sound function described in this manual enables you to extract this "indirect sound" from a music source so that you can create a dynamic sound space.



Sensation of having an additional speaker on each side

How to listen with augmented bass (Super bass)

Press the SUPER BASS button.



- Press this button once again to cancel the super bass mode.

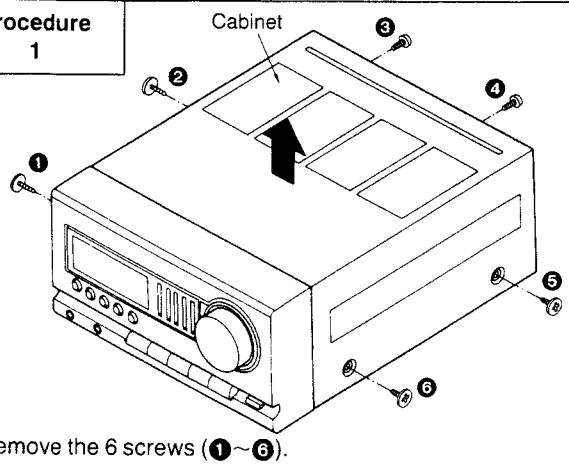
- The lower the volume level, the greater is the supper bass effect.

■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the Cabinet

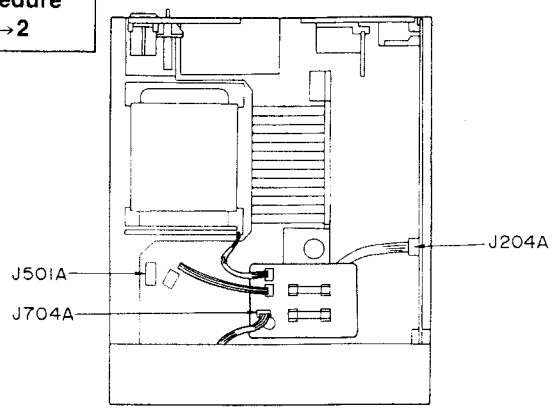
Procedure 1



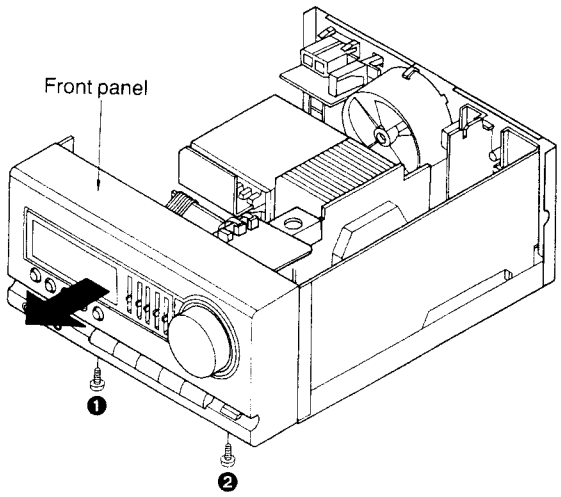
•Remove the 6 screws (❶~❻).

Ref. No. 2	Removal of the Front panel

Procedure 1→2



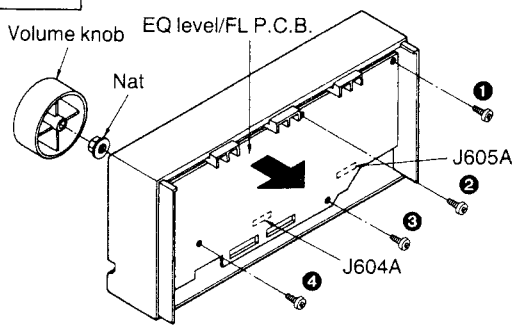
1. Remove the 3 flat cables (J204A, J501A, J704A).



2. Remove the 2 screws (❶, ❷).
3. Remove the front panel in the direction of the arrow.

Ref. No. 3	Removal of the EQ lebel/FL P.C.B.

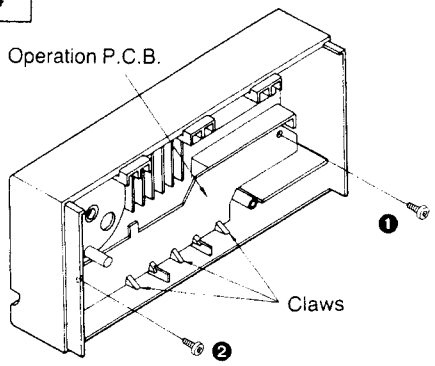
Procedure 1→2→3



1. Remove the volume knob and nut.
2. Remove the 4 screws (❶~❹).
3. Remove the PCB in the direction of the arrow, making sure not to damage the connectors (J604A and J605A).

Ref. No. 4	Removal of the Operation P.C.B.

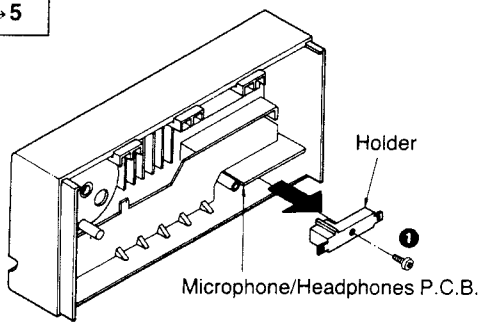
Procedure 1→2→3→4



1. Remove the 2 screws (❶, ❷).
2. Remove the 3 claws.

Ref. No. 5	Removal of the Microphone/ Headphones Jack P.C.B.

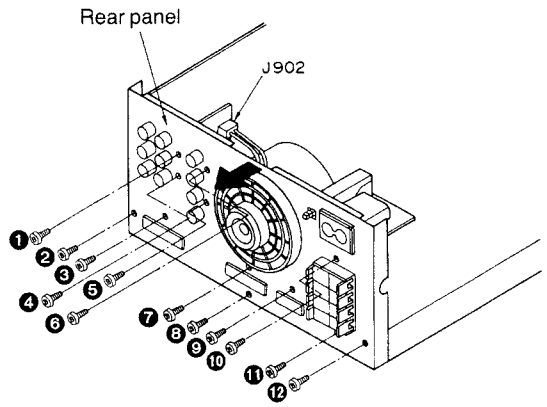
Procedure 1→2→3→5



1. Remove the screw (❶).
2. Remove the holder.
3. Remove the P.C.B. in the direction of the arrow.

Ref. No. 6	Removal of the Rear panel

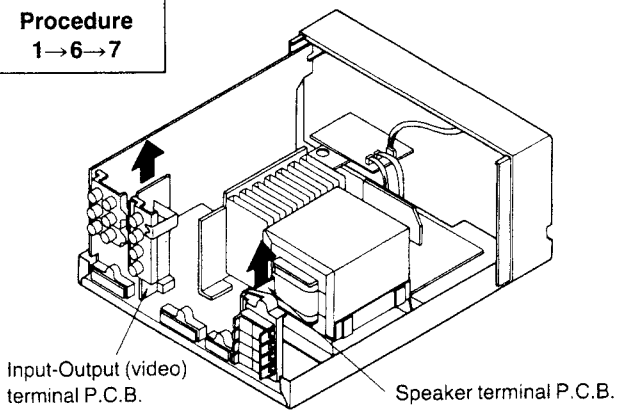
Procedure 1→6



1. Remove the connector (J902).
2. Remove the 12 screws (❶~⑫).
3. Remove the rear panel in the direction of the arrow.

Ref. No 7	Removal of the Speaker/Input-Output (video) terminal P.C.B.

Procedure 1→6→7

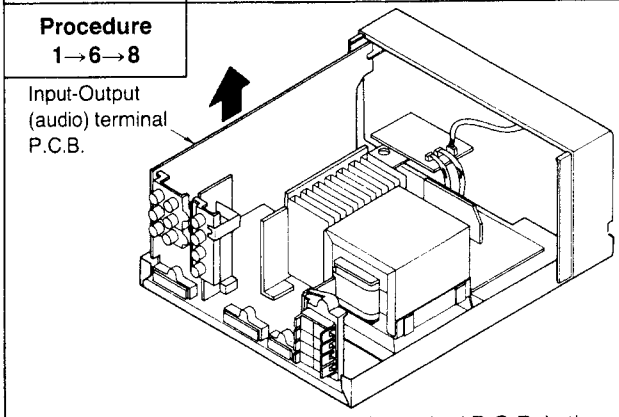


■ **Speaker terminal P.C.B.**
- Remove the speaker terminal P.C.B. in the direction of the arrow.

■ **Input-Output (video) terminal P.C.B.**
- Remove the input-output (video) terminal P.C.B. in the direction of the arrow.

Ref. No. 8	Removal of the Input-Output (audio) terminal P.C.B.

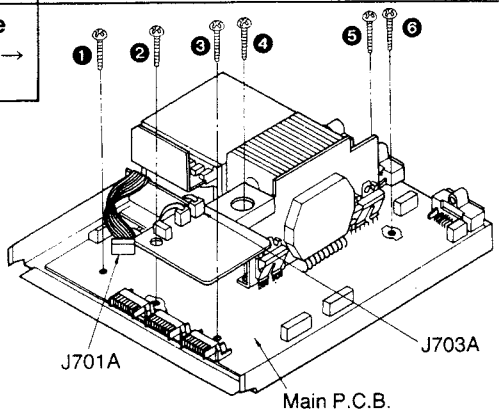
Procedure 1→6→8



- Remove the Input-Output (audio) terminal P.C.B. in the direction of the arrow.

Ref. No. 9	Removal of the Main P.C.B.

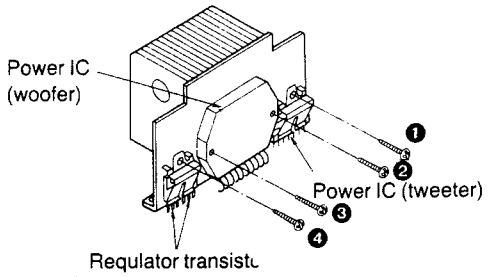
Procedure 1→2→6→7→8→9



1. Remove the 2 flat cables (J701A, J703A).
2. Remove the 6 screws (❶~❻).

Ref. No. 10	Removal of the Power IC and Regulator Transistor

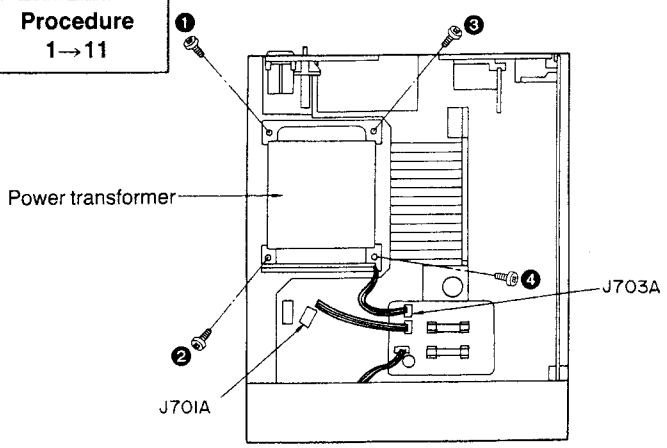
Procedure 9→10



1. Unsolder the power IC or regulator transistor.
2. Remove the 4 screws (❶~❹).
- **When mounting the power IC or regulator transistor.** Apply silicone compond (SZZOL 15) to the rear side of power IC or regulator transistor.

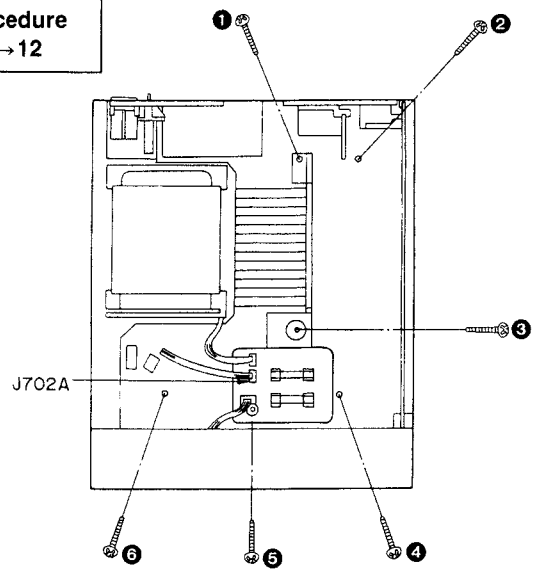
Ref. No. 11	Removal of the Power Transformer

Procedure 1→11

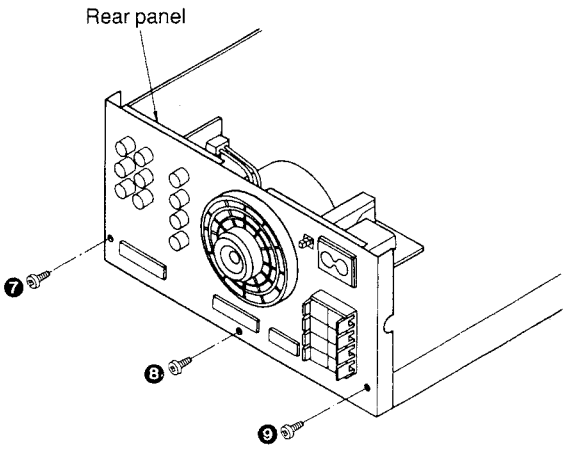


1. Remove the 2 flat cables (J701A, J703A).
2. Remove the 4 screws (❶~❹).

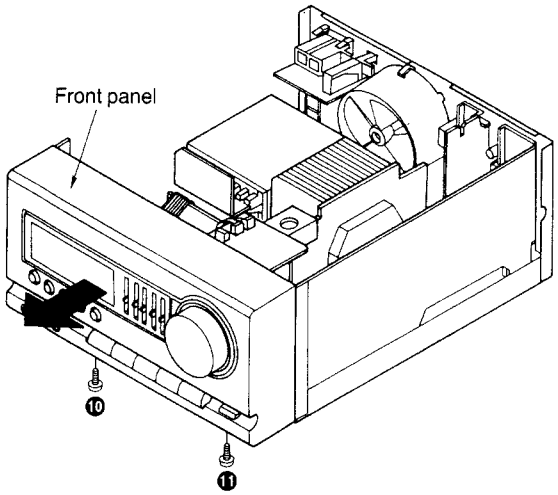
Ref. No. 12	Check of the Main P.C.B.
Procedure 1→12	



1. Remove the 6 screws (❶~❻).

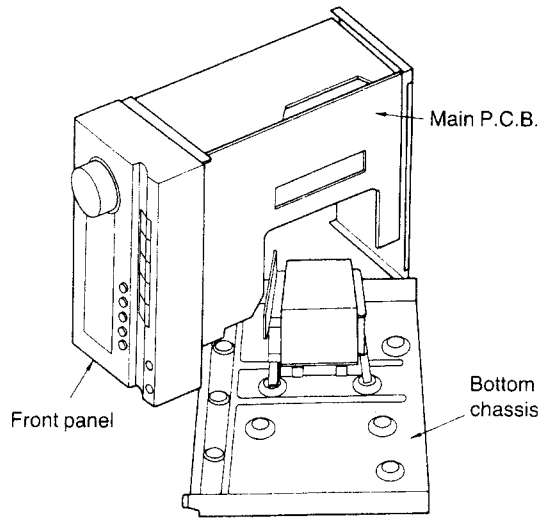


2. Remove the 3 screws (❼~❾).



3. Remove the 2 screws (❿, ⓫).
4. Remove the front panel in the direction of the arrow.

Note:
Connect the flat cable to the connectors (J201A and J501A).

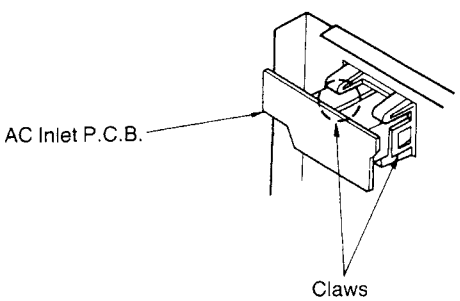


5. Remove the bottom chassis.
6. Reinstall the front panel to the main P.C.B. and place the unit as shown above.

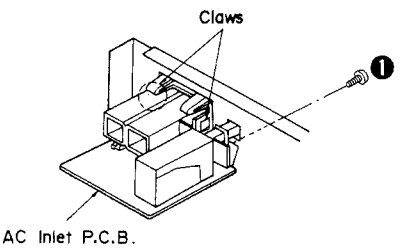
Ref. No. 13	Removal of the AC Inlet P.C.B.
Procedure 1→13	

■ **For [E], [EI] areas**
- Remove the 2 claws.

■ **For [EB] area**
1. Remove the 1 screw (❶).
2. Remove the 2 claws.

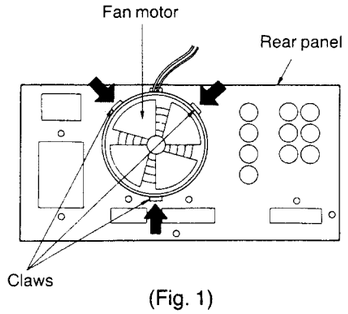


For [E], [EI] areas.



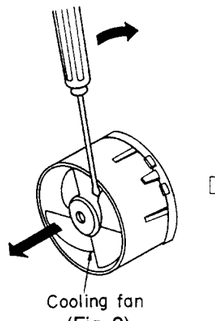
For [EB] area.

Ref. No. 14	Removal of the Fan Motor
Procedure 1→6→14	

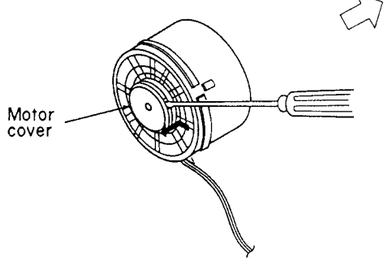


(Fig. 1)

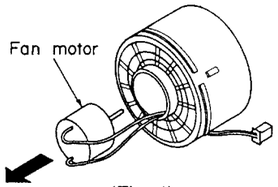
1. Release the 3 claws. (See Fig. 1)
2. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft. (See Fig. 2)
3. Remove the motor cover by used ⊖ screwdriver. (See Fig. 3)
4. Remove the motor from the fan casing. (See Fig. 4)
5. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor. (See Fig. 5)



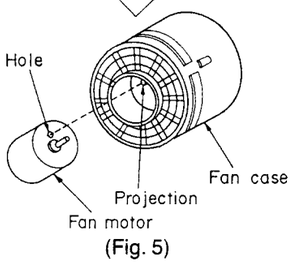
(Fig. 2)



(Fig. 3)

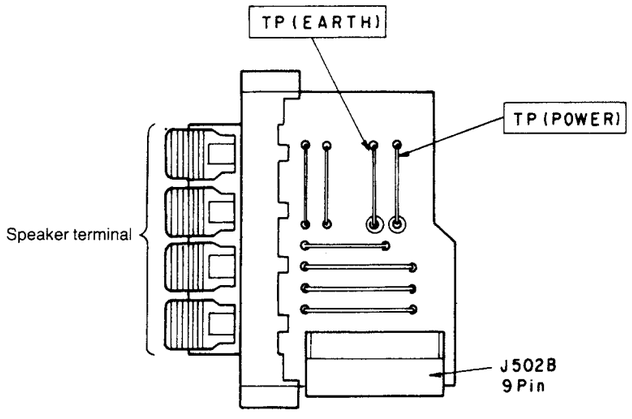


(Fig. 4)



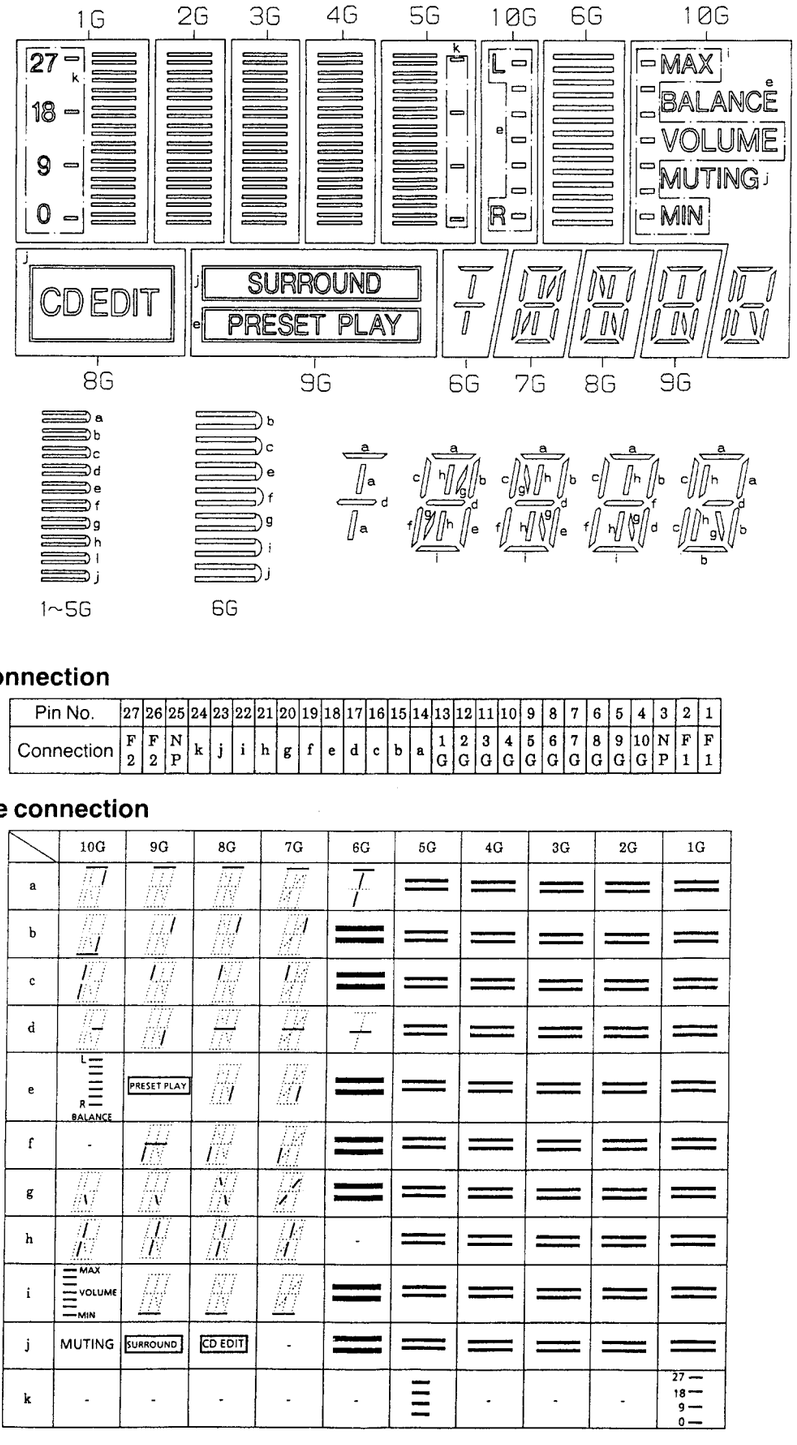
(Fig. 5)

Note:
This unit (SU-CH9) is not equipped with a power switch, so short the [TP (EARTH)] and [TP (POWER)] on the speaker terminal PCB to turn the power on/off. (E, EI) areas.



■ DESCRIPTION OF FL PANEL [FL601 (RSL0048-F)]

•Grid assignment



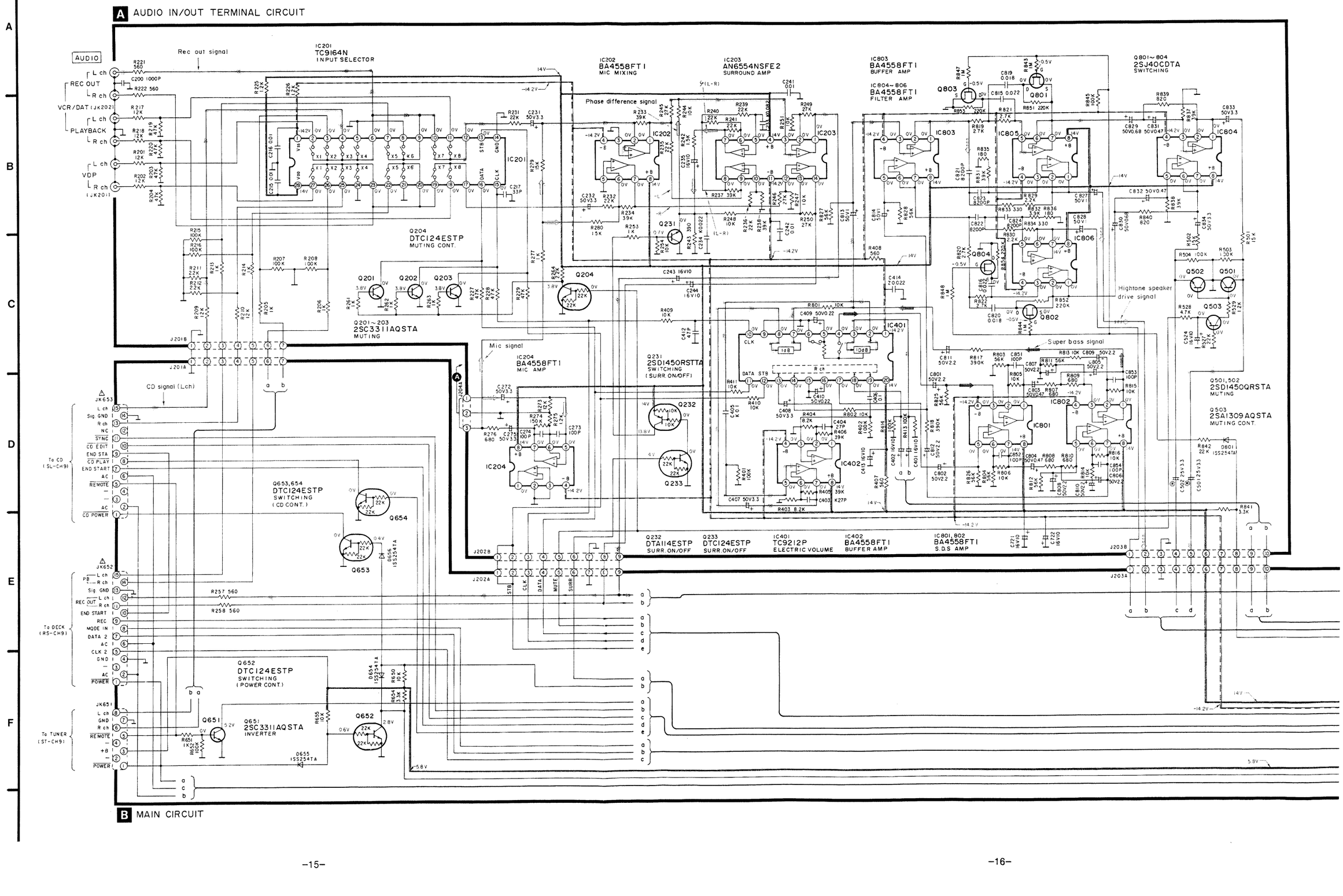
•Pin connection

Pin No.	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Connection	F 2	F 2	N P	k	j	i	h	g	f	e	d	c	b	a	1 G	2 G	3 G	4 G	5 G	6 G	7 G	8 G	9 G	10 G	N P	F 1	F 1

•Anode connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
a										
b										
c										
d										
e	L R BALANCE	PRESET PLAY								
f	-									
g										
h					-					
i	MAX VOLUME MIN									
j	MUTING	SURROUND	CD EDIT	-						
k	-	-	-	-	-		-	-	-	27 18 9 0

■ SCHEMATIC DIAGRAM (Parts list on pages 29~32.)



10 11 12 13 14 15 16 17 18 19

C VIDEO IN/OUT TERMINAL CIRCUIT

VIDEO
OUTPUT
VCR/DAT (JK901-1) INPUT
VDP INPUT (JK901-2)
TV OUT (JK901-3)
FAN MOTOR
J902
R905 10K
R903 10K
R904 10K
R912 47
R913 47
R910 10K
R911 3.9K
R917 470
R902 470
R914 10
R922 1/2W 82
R920 47
R906 560
R916 560
R915 560
R918 47
C907 100P
C901 0.01
C904 16V47
C908 100P
R908 1K
D903 ISS254TA
Q902
Q903
Q901
IC900
IC900 MC14052BCP VIDEO SELECTOR
Q901 2SA1309AQSTA INTERFACE
Q902,903 2SC3311AQSTA INTERFACE

D OPERATION SWITCH CIRCUIT

Q603, 605 DTC124ESTP LED DRIVE
Q604 DTA124ESTP LED DRIVE
S611 (SUPER BASS)
S610 (BALANCE Rch)
S609 (BALANCE Lch)
S608 (SURROUND)
S607 (ME40(OFF))
S606 (S.MODE/RECALL)
S605 (VCR/DAT)
S604 (CD)
S603 (TAPE)
S602 (TUNER)
S601 (VDP)
R607 3.3K
R603 2.2K
R606 1.8K
R605 1.5K
R604 2.2K
R611 6.8K
R610 12K
R609 1.5K
R608 2.2K
R602 10K
R601 10K
R615 330
R614 270
R613 820
R612 2K
C620 6.3V47
C621 6.3V47
D604 ISS254TA
D605 ISS254TA
D606 (VCR/DAT)
D607 (VDP)
D608 ISS254TA
D609 ISS254TA
D610 ISS254TA
D611 ISS254TA
D612 ISS254TA
D613 ISS254TA
D614 ISS254TA
D615 ISS254TA
D616 ISS254TA
D617 MA4047MTA
D618 ISS254TA
D619 ISS254TA
D620 ISS254TA
D621 ISS254TA
D622 ISS254TA
D623 ISS254TA
D624 ISS254TA
D625 ISS254TA
D626 ISS254TA
D627 ISS254TA
D628 ISS254TA
D629 ISS254TA
D630 ISS254TA
D631 ISS254TA
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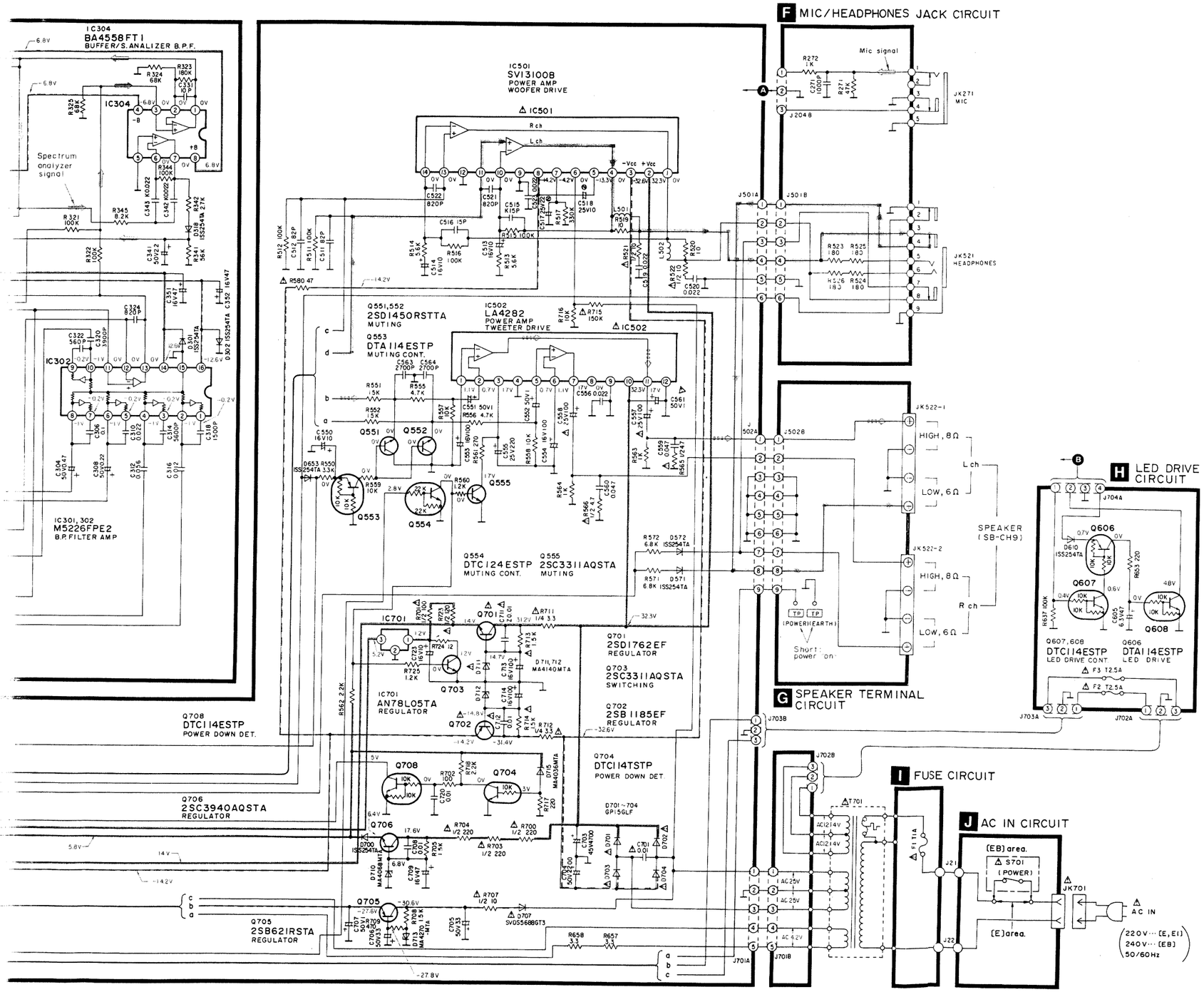
D644 ISS254TA
D645 ISS254TA
D646 ISS254TA
D647 ISS254TA
D648 ISS254TA
D649 ISS254TA
D650 ISS254TA
D651 ISS254TA
Q605
Q606,607 LN873RP-LS
Q603
J6058
J6059A
J6048
J6049A
J6038
J6039A
J6028
J6029A
J6018
J6019A
J901B
J901A
J902B
J902A
J903B
J903A
J904B
J904A
J605A
J604B
J604A
J603B
J603A
J602B
J602A
J601B
J601A

E FL DRIVE CIRCUIT

IC601 M50942-335SP MICRO COMPUTER
FL601(RSL0048-F)
FL DISPLAY
Q601 DTA124ESTP SWITCHING
SURROUND ON
VR901 (VOLUME)
0V VCR "ON"
0V S BASS "OFF"
MUTE ON
Q602 DTC124ESTP SWITCHING (RESET)
Q601
Q602
IC303 AN6554NSFE2 SPECTRUM ANALIZER B.P.F.
IC304 BA4558FT1 BUFFER/S.ANALIZE
IC301, 302 M5226FPE2 B.P.FILTER AMP
Spectrum analyzer signal
CD signal (L ch)
(80Hz) (250Hz) (1kHz) (4kHz) (12.5kHz)
EQ LEVEL

19 20 21 22 23 24 25 26 27 28



(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

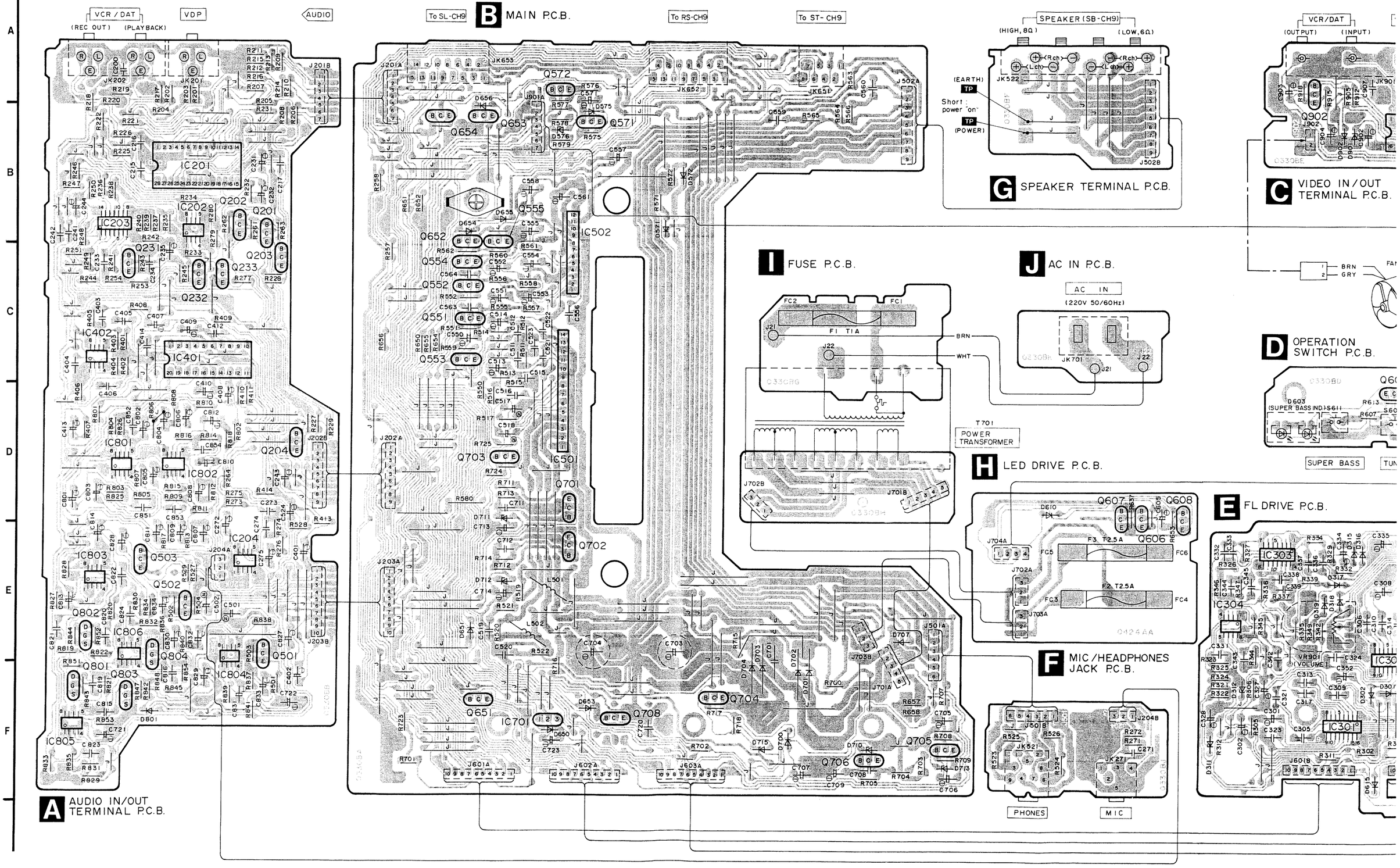
- **S601~S605** : Input selector switches. **(S601: VDP/BS, S602: TUNER, S603: TAPE S604: CD, S605: VCR/DAT)**
- **S606** : Spectrum mode/preset memory recall switch. **(–: SPECTRUM MODE, —: RECALL)**
- **S607** : Preset play memory switch.
- **S608** : Surround switch.
- **S609, S610** : Balance adjustment switches. **[S609: Lch, S610: Rch]**
- **S611** : Super bass switch.
- **S701** : Power switch. **For (EB) area only.**
- : Positive voltage line
- : Negative voltage line
- : CD signal (L ch) line
- : Super bass signal
- : Microphone signal
- : Spectrum analyzer signal
- : Hightone speaker drive signal
- : Rec out signal
- : Phase difference signal

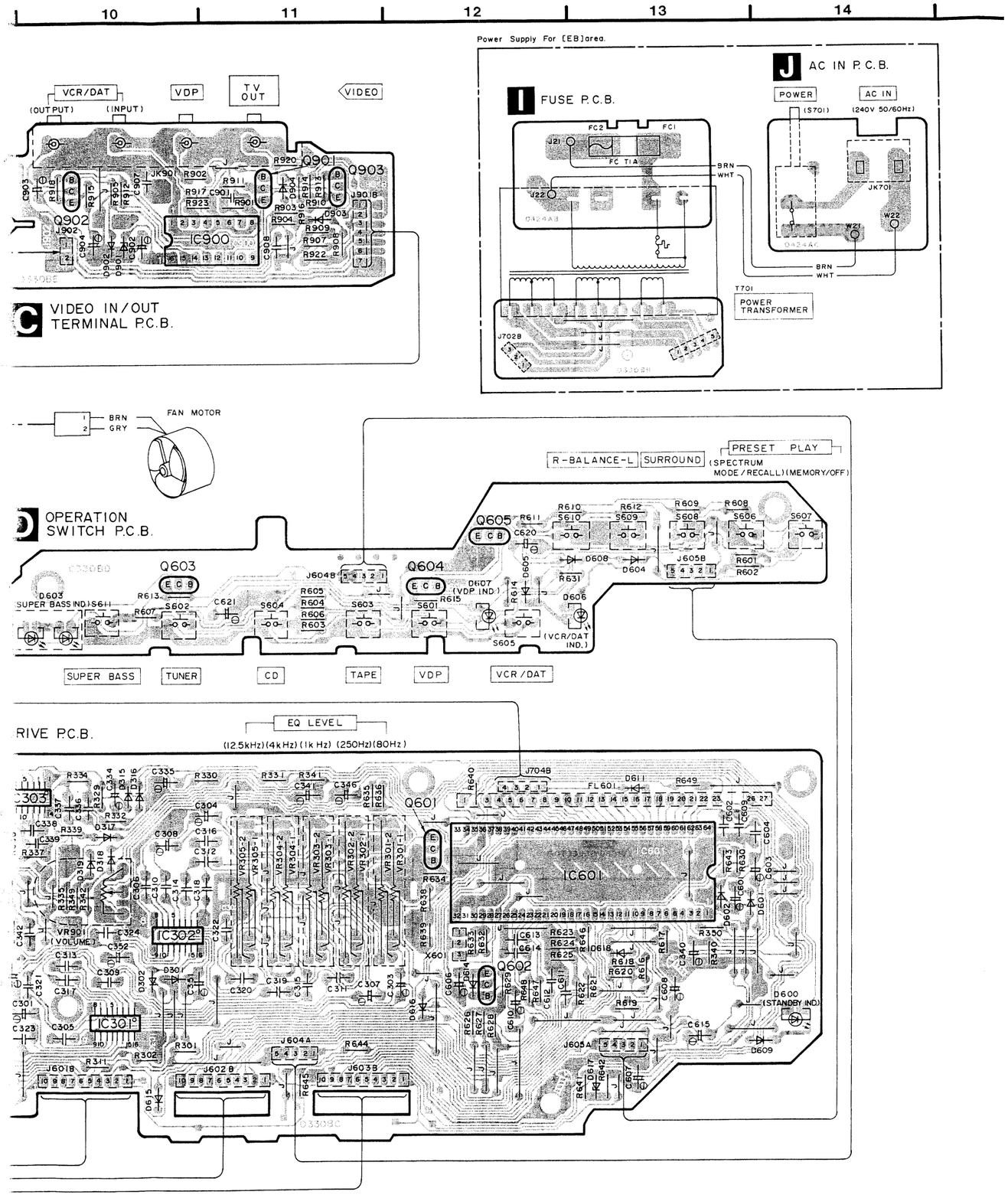
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

***Caution!**

IC and LSI ar sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
*Cover the parts boxes made of plastics with aluminum foil.
*Ground the soldering iron.
*Put a conductive mat on the word table.
*Do not touch the legs of IC or LSI with the fingers directly.

■ PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM (Parts list on pages 29~32.)





■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

TC9164N	SVIBA4558F	AN6554NSFE2	M5226FPE2	TC9212P
SVI3100B	LA4282	M50942-335SP	AN78L05TA 1.Vin 2.GND 3.Vout	MC14052BCP
2SA1309A-R 2SC3311A-Q 2SD1450QRSTA 2SD1450RTA		DTA114ESTP DTC114EKT96 DTA124ESTP DTC124EST DTC114TSTP	MSC2458ABCTA	2SJ40CDTA
2SB621RSTA	2SC3940AQSTA	2SB1185EF 2SD1762EF	MA700ATA 1SS254TA 1SS291TA	GP15GLF SVDS5688GT3
MA4047MTA MA4051MTA MA4068MTA		MA4140MTA MA4270MTA MA4036MTA	LN013397PH	LN873RP-LS
LN0202GP3				

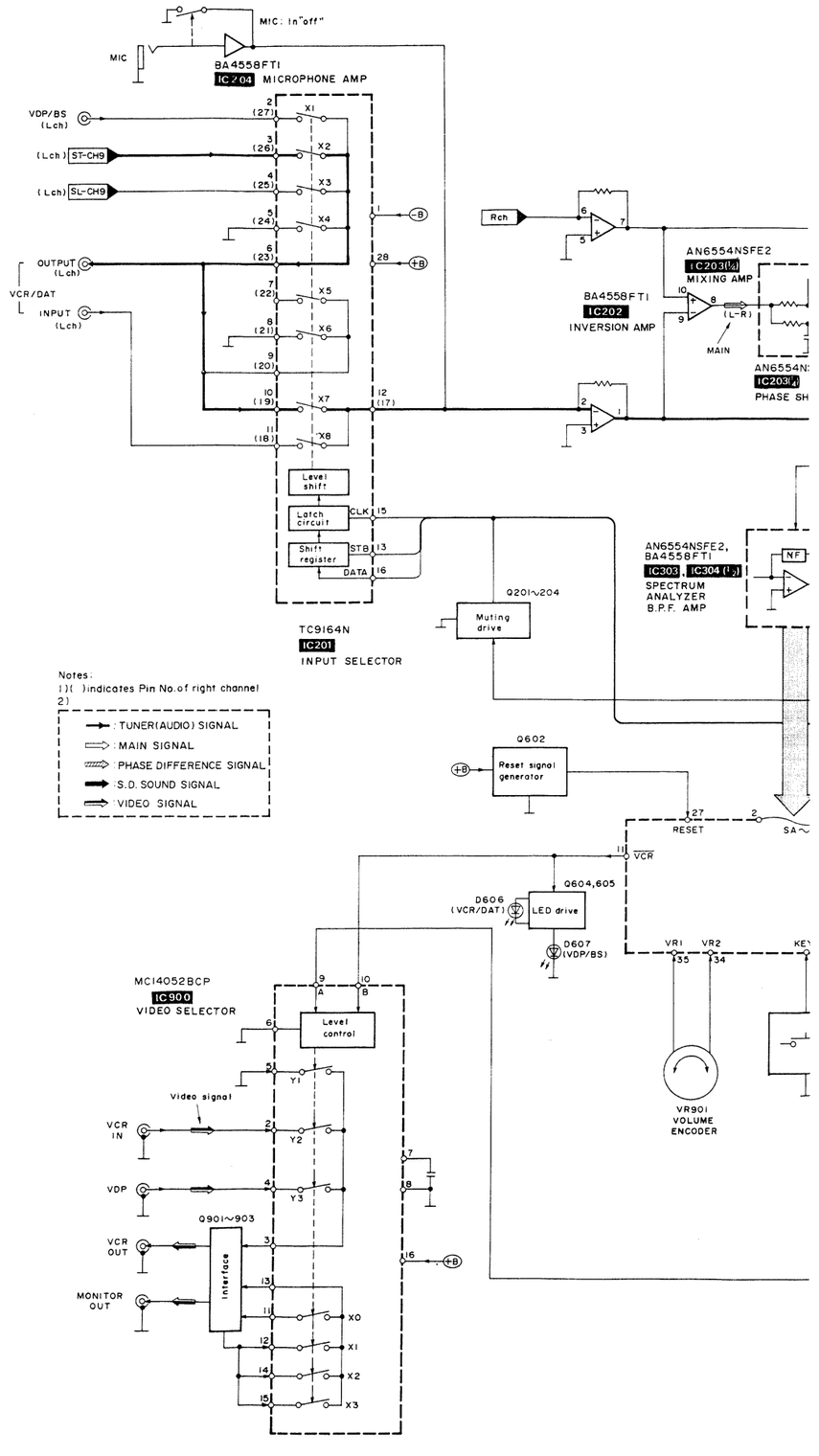
■ FUNCTIONS OF IC TERMINALS

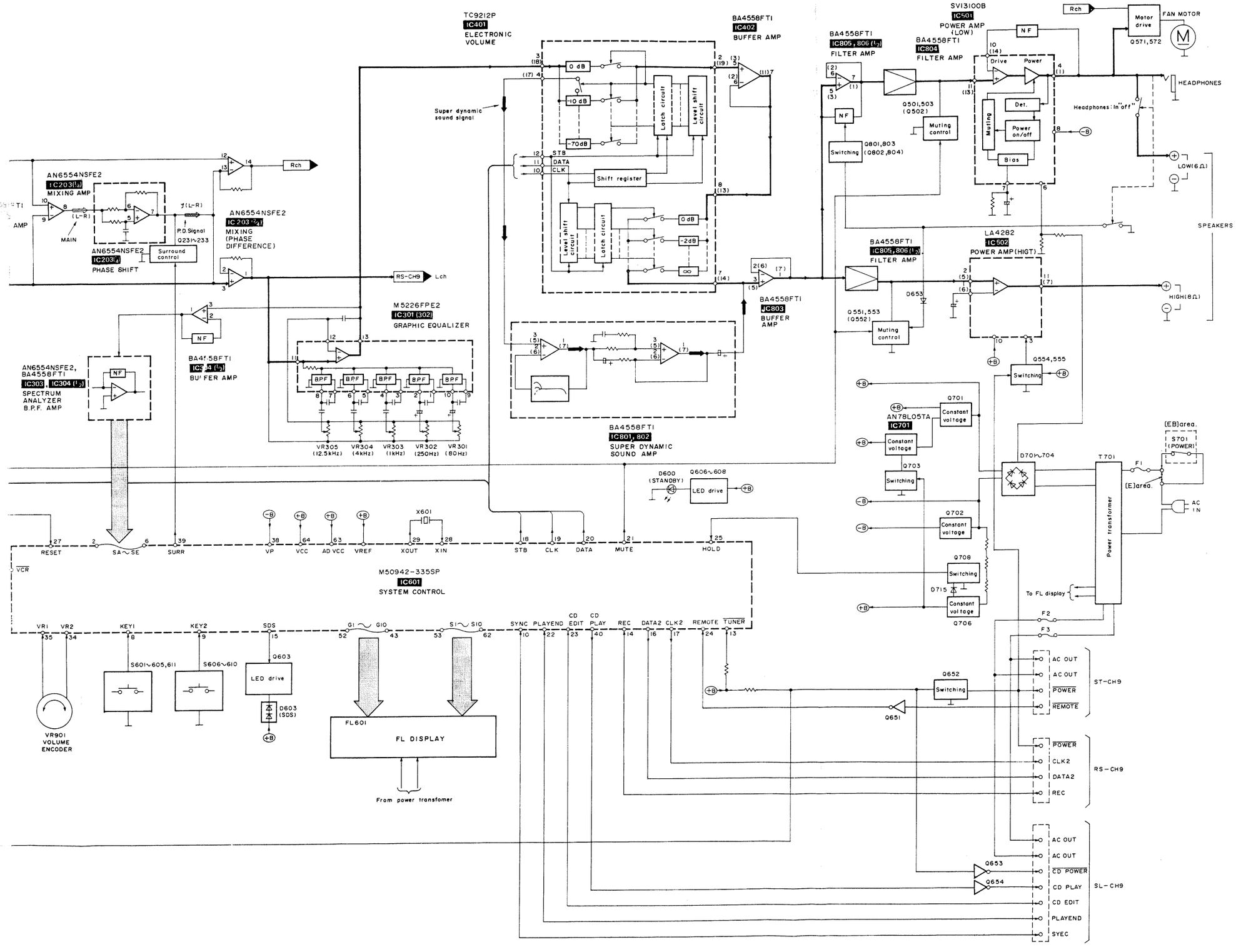
•IC601 (M50942-335SP): MICRO COMPUTER

Pin No.	Terminal Name	I/O	Function
1	Vref	I	Reference voltage input
2 ~ 6	Sa ~ Se	I	Spectrum analyzer control signal input
7	MODE IN	I	Deck mode input
8	KEY 1	I	Key return signal input
9	KEY 2		
10	$\overline{SYNC}$	I	Synchro signal input
11	BGV 1	O	BGV output
12	———	—	———
13	$\overline{TUNER}$	O	Tuner position ..... "L"
14	REC	I	Recording state input
15	LOUD	O	Loudness control output Loudness on ..... "H"
16	DATA 2	O	Data signal output for M50253
17	CLK 2	O	Clock signal output for M50253
18	STB	O	Strobe output for TC9164N • TC9212P
19	CLK	O	Clock signal output for TC9164N • TC9212P
20	DATA	O	Data signal output for TC9164N • TC9212P
21	MUTE	O	Muting control signal output

Pin No.	Terminal Name	I/O	Function
22	$\overline{PLAY\ END}$	I	PLAY END input for CD edit
23	$\overline{CD\ EDIT}$	I	CD edit input
24	$\overline{REMOTE}$	I	Serial data in Version for remote control
25	$\overline{HOLD}$	I	Hold mode detection
26	CN Vss	—	Connected to GND
27	$\overline{RESET}$	I	Reset signal input
33	NC	—	———
34 • 35	VR 0 • VR 1	I	Encoder volume input
36	$\overline{REC}$	I	DECK REC detection
37	POWER	I	Power ON/OFF detection
38	−Vp	I	Pull-down voltage input for FL
39	$\overline{SURR}$	O	Surround control output
40	CD PLAY	O	CD play control output
41 • 42	———	—	———
43 ~ 52	G10 ~ G1	O	Grid signal output
53 ~ 62	S1 ~ S10	O	Segment signal output

■ BLOCK DIAGRAM




TC9212P
IC401
ELECTRONIC VOLUME
BA4558FTI
IC402
BUFFER AMP
SVI3100B
IC501
POWER AMP (LOW)
BA4558FTI
IC805, 806 (1/2)
FILTER AMP
BA4558FTI
IC804
FILTER AMP
Rch
Motor drive
FAN MOTOR
Q571, 572
HEADPHONES
Headphones: in "off"
LOW(6Ω)
SPEAKERS
Super dynamic sound signal
0 dB
-10 dB
-70dB
Latch circuit
Level shift circuit
Shift register
STB
DATA
CLK
-2dB
∞
Drive
Power
Det.
Muting
Power on/off
Bias
NF
Switching
Q801, 803 (Q802, 804)
Q501, 503 (Q502)
Muting control
AN6554NSFE2
IC203 (1/2)
MIXING AMP
MAIN
(L-R)
P.D. Signal
Q231~233
Surround control
PHASE SHIFT
MIXING (PHASE DIFFERENCE)
RS-CH9
Lch
BA4558FTI
IC803
BUFFER AMP
BA4558FTI
IC805, 806 (1/2)
FILTER AMP
LA4282
IC502
POWER AMP (HIGT)
HIGH(8Ω)
D653
Q551, 553 (Q552)
Muting control
Q554, 555
Switching
M5226FPE2
IC301 (302)
GRAPHIC EQUALIZER
BPF
VR305 (12.5kHz)
VR304 (4kHz)
VR303 (1kHz)
VR302 (250Hz)
VR301 (80Hz)
AN6554NSFE2, BA4558FTI
IC303, IC304 (1/2)
SPECTRUM ANALYZER B.P.F. AMP
BA4558FTI
IC305, 306 (1/2)
BUFFER AMP
BA4558FTI
IC801, 802
SUPER DYNAMIC SOUND AMP
AN78L05TA
IC701
Q701
Constant voltage
Q703
Switching
Q702
Q708
D715
Q706
D600 (STANDBY)
Q606~608
LED drive
D701~704
T701
Power transformer
F1
(E) area.
S701 (POWER)
AC IN
To FL display
F2
F3
X601
M50942-335SP
IC601
SYSTEM CONTROL
RESET
SA~SE
SURR
VP
VCC
AD VCC
VREF
XOUT
XIN
STB
CLK
DATA
MUTE
HOLD
VCR
VR1
VR2
KEY1
KEY2
SDS
G1~G10
S1~S10
SYNC
PLAYEND
CD EDIT
CD PLAY
REC
DATA2
CLK2
REMOTE
TUNER
S601~605, 611
S606~610
Q603
LED drive
D603 (SDS)
VR901 VOLUME ENCODER
FL601
FL DISPLAY
From power transfomer
Q652
Switching
Q651
Q653
Q654
AC OUT
AC OUT
POWER
REMOTE
ST-CH9
POWER
CLK2
DATA2
REC
RS-CH9
AC OUT
AC OUT
CD POWER
CD PLAY
CD EDIT
PLAYEND
SYEC
SL-CH9

■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*"K" mark parts are used for black type only.
*"H" mark parts are used for gray type only.
Parts other than "K" and "H" marked are used for all colour types.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC201	TC9164N	IC, INPUT SELECTOR	
IC202	SVIBA4558F	IC, MIC MIXING	
IC203	AN6554NSFE2	IC, SURROUND AMP.	
IC204	SVIBA4558F	IC, MIC AMP.	
IC301, 302	M5226FPE2	IC, BAND PASS FILTER AMP.	
IC303	AN6554NSFE2	IC, SPECTRUM ANALIZER	
IC304	SVIBA4558F	IC, BUFFER AMP.	
IC401	TC9212P	IC, ATTENUATOR(VOLUME)	
IC402	SVIBA4558F	IC, BUFFER AMP.	
IC501	SVI3100B	IC, POWER AMP. /WOOFER DRIVE	⚠
IC502	LA4282	IC, POWER AMP. /TWEETER DRIVE	⚠
IC601	M50942-335SP	IC, MICRO COMPUTER	
IC701	AN78L05TA	IC, REGULATOR	
IC801, 802	SVIBA4558F	IC, S. D. S AMP	
IC803	SVIBA4558F	IC, BUFFER AMP.	
IC804-806	SVIBA4558F	IC, FILTER AMP.	
IC900	MC14052BCP	IC, VIDEO SELECTOR	
		TRANSISTOR(S)	
Q201-203	2SC3311A-Q	TRANSISTOR	
Q204	DTC124EST	TRANSISTOR	
Q231	2SD1450RTA	TRANSISTOR	
Q232	DTA114ESTP	TRANSISTOR	
Q233	DTC124EST	TRANSISTOR	
Q501, 502	2SD1450QRSTA	TRANSISTOR	
Q503	2SA1309A-R	TRANSISTOR	
Q551, 552	2SD1450RTA	TRANSISTOR	
Q553	DTA114ESTP	TRANSISTOR	
Q554	DTC124EST	TRANSISTOR	
Q555	2SC3311A-Q	TRANSISTOR	
Q571	2SA1309A-R	TRANSISTOR	
Q572	MSC2458ABCTA	TRANSISTOR	
Q601	DTA124ESTP	TRANSISTOR	
Q602, 603	DTC124EST	TRANSISTOR	
Q604	DTA124ESTP	TRANSISTOR	
Q605	DTC124EST	TRANSISTOR	
Q606	DTA114ESTP	TRANSISTOR	
Q607, 608	DTC114EKT96	TRANSISTOR	
Q651	2SC3311A-Q	TRANSISTOR	
Q652-654	DTC124EST	TRANSISTOR	
Q701	2SD1762EF	TRANSISTOR	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
Q702	2SB1185EF	TRANSISTOR	⚠
Q703	2SC3311A-Q	TRANSISTOR	
Q704	DTC114TSTP	TRANSISTOR	
Q705	2SB621RSTA	TRANSISTOR	
Q706	2SC3940AQSTA	TRANSISTOR	
Q708	DTC114EKT96	TRANSISTOR	
Q801-804	2SJ40CDTA	TRANSISTOR	
Q901	2SA1309A-R	TRANSISTOR	
Q902, 903	2SC3311A-Q	TRANSISTOR	
		DIODE(S)	
D301, 302	1SS254TA	DIODE	
D311, 312	MA4068M	DIODE	
D315, 316	MA700	DIODE	
D317-319	1SS254TA	DIODE	
D571, 572	1SS254TA	DIODE	
D575	MA700	DIODE	
D576	MA4051MTA	DIODE	
D600	LN013397PH	DIODE	
D601	1SS254TA	DIODE	
D602	1SS291TA	DIODE	
D603	LN0202GP3	DIODE	
D604, 605	1SS254TA	DIODE	
D606, 607	LN873RP-LS	DIODE	
D608-611	1SS254TA	DIODE	
D614-616	1SS254TA	DIODE	
D617	MA4047MTA	DIODE	
D618	1SS254TA	DIODE	
D650, 651	1SS254TA	DIODE	
D653-656	1SS254TA	DIODE	
D700	1SS254TA	DIODE	
D701-704	GP15GLF	DIODE	⚠
D707	SVDS5688GT3	DIODE	⚠
D710	MA4068M	DIODE	
D711, 712	MA4140M	DIODE	
D713	MA4270	DIODE	
D715	MA4036MTA	DIODE	
D801	1SS254TA	DIODE	
D901	MA4047MTA	DIODE	
D902-904	1SS254TA	DIODE	
		VARIABLE RESISTOR(S)	
VR301	EWAJQ2C95G15	V. R, E. Q. LEVEL (80Hz)	

Ref. No.	Part No.	Part Name & Description	Remarks
VR302	EWAJQ2C95G15	V. R, E. Q. LEVEL (250Hz)	
VR303	EWAJQ2C95G15	V. R, E. Q. LEVEL (1kHz)	
VR304	EWAJQ2C95G15	V. R, E. Q. LEVEL (4kHz)	
VR305	EWAJQ2C95G15	V. R, E. Q. LEVEL (12. 5kHz)	
VR901	EVQWQAF2524B	V. R, VOLUME CONTROL	
		TRANSFORMER (S)	
T701	RTP1M5B004-V	POWER TRANSFORMER	⚠
		COIL (S)	
L501, 502	SLQY07G-40	COIL	
		OSCILLATOR (S)	
X601	EF0GC4004A4	CERAMIC FILTER	
		DISPLAY TUBE	
FL601	RSL0048-F	DISPLAY TUBE	
		FUSE (S)	
F1	XBA2C10TB0	FUSE 250V 1. 0A	⚠
F2, 3	XBA2C25TB0	FUSE 250V 2. 5A	⚠
		SWITCH (ES)	
S601	EVQ21405R	SW, INPUT SELECTOR (VDP)	
S602	EVQ21405R	SW, INPUT SELECTOR (TUNER)	
S603	EVQ21405R	SW, INPUT SELECTOR (TAPE)	
S604	EVQ21405R	SW, INPUT SELECTOR (CD)	
S605	EVQ21405R	SW, INPUT SELECTOR (VCR/DAT)	
S606	EVQ21405R	SW, SPECTRUM/RECALL	
S607	EVQ21405R	SW, MEMORY	
S608	EVQ21405R	SW, AV SURROUND	
S609	EVQ21405R	SW, BALANCE ADJ. (L)	
S610	EVQ21405R	SW, BALANCE ADJ. (R)	
S611	EVQ21405R	SW, S. BASS	
S701	ESB8249V	SW, POWER	⚠ (EB)

Ref. No.	Part No.	Part Name & Description	Remarks
		JACK (S)	
J902	SJT3213	CONNECTOR (2P)	
J201A	RJT057W007	CONNECTOR (7P)	
J202A	RJT057W009	CONNECTOR (9P)	
J203A	RJT057W010	CONNECTOR (10P)	
J204A	SJT30343-V	CONNECTOR (3P)	
J501A	SJT30643-V	CONNECTOR (6P)	
J502A	SJS50978JQ	SOCKET (9P)	
J601A	RJU003K010M1	SOCKET (10P)	
J602A	RJU003K010M1	SOCKET (10P)	
J603A	RJU003K010M1	SOCKET (10P)	
J604A	SJT30549BB	CONNECTOR (5P)	
J605A	SJT30549BB	CONNECTOR (5P)	
J701A	SJT30543-V	CONNECTOR (5P)	
J702A	RJS1A1703	SOCKET (3P)	
J703A	RJS1A1703	SOCKET (3P)	
J704A	RJS1A1704	SOCKET (4P)	
J901A	RJT057W007	CONNECTOR (7P)	
J201B	RJU057W007	SOCKET (7P)	
J202B	RJU057W009	SOCKET (9P)	
J203B	RJU057W010	SOCKET (10P)	
J502B	SJT30945JQ	CONNECTOR (9P)	
J601B	RJT003K010M1	CONNECTOR (10P)	
J602B	RJT003K010M1	CONNECTOR (10P)	
J603B	RJT003K010M1	CONNECTOR (10P)	
J604B	SJS50581BB	SOCKET (5P)	
J605B	SJS50581BB	SOCKET (5P)	
J901B	RJU057W007	SOCKET (7P)	
JK201	SJF3068N	TERMINAL AUDIO INPUT	
JK202	SJF3069N	TERMINAL AUDIO IN/OUTPUT	
JK271	RJJ1D25ZA-C	MICROPHONE JACK	
JK521	RJJ39T01	HEADPHONE JACK	
JK522	SJF5813-2	TERMINAL, SPEAKER	
JK651	RJT055K008	TERMINAL, CONT. (TUNER)	
JK652	RJT055B015	TERMINAL, CONT. (TAPE)	⚠
JK653	RJT055B015	TERMINAL, CONT. (CD)	⚠
JK701	SJS9231-1B	AC INLET	⚠ (E, EI)
JK701	SJVD0203B	AC INLET	⚠ (EB)
JK901	SJF3061N	TERMINAL, VIDEO IN/OUT	
		FUSE HOLDER (S)	
FC1, 2	SJT388	FUSE HOLDER	⚠
FC3-6	EYF52BC	FUSE HOLDER	⚠

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1, 000 (OHM) , 1M=1, 000k (OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R201, 202	ERDS2TJ123	1/4W 12K

Ref. No.	Part No.	Values & Remarks
R203, 204	ERDS2TJ473	1/4W 47K
R205, 206	ERDS2TJ102	1/4W 1K
R207, 208	ERDS2TJ104	1/4W 100K
R209, 210	ERDS2TJ122	1/4W 1. 2K

Ref. No.	Part No.	Values & Remarks
R211, 212	ERDS2TJ222	1/4W 2. 2K
R213, 214	ERDS2TJ102	1/4W 1K
R215, 216	ERDS2TJ104	1/4W 100K
R217, 218	ERDS2TJ123	1/4W 12K

Ref. No.	Part No.	Values & Remarks
R219, 220	ERDS2TJ473	1/4W 47K
R221, 222	ERDS2TJ561	1/4W 560
R225, 226	ERDS2TJ122	1/4W 1.2K
R227-229	ERDS2TJ473	1/4W 47K
R231, 232	ERDS2TJ223	1/4W 22K
R233, 234	ERDS2TJ393	1/4W 39K
R235, 236	ERDS2TJ223	1/4W 22K
R237, 238	ERDS2TJ393	1/4W 39K
R239-241	ERDS2TJ223	1/4W 22K
R242	ERDS2TJ152	1/4W 1.5K
R243	ERDS2TJ391	1/4W 390
R244	ERDS2TJ103	1/4W 10K
R245, 246	ERDS2TJ273	1/4W 27K
R247, 248	ERDS2TJ103	1/4W 10K
R249, 250	ERDS2TJ273	1/4W 27K
R251	ERDS2TJ103	1/4W 10K
R253	ERDS2TJ102	1/4W 1K
R254	ERDS2TJ103	1/4W 10K
R257, 258	ERDS2TJ561	1/4W 560
R261-263	ERDS2TJ102	1/4W 1K
R264	ERDS2TJ222	1/4W 2.2K
R271	ERDS2TJ473	1/4W 47K
R272	ERDS2TJ102	1/4W 1K
R273	ERDS2TJ123	1/4W 12K
R274	ERDS2TJ154	1/4W 150K
R275	ERDS2TJ122	1/4W 1.2K
R276	ERDS2TJ681	1/4W 680
R277	ERDS2TJ102	1/4W 1K
R279, 280	ERDS2TJ153	1/4W 15K
R301, 302	ERDS2TJ271	1/4W 270
R305, 306	ERDS2TJ682T	1/4W 6.8K
R311, 312	ERDS2TJ391	1/4W 390
R321, 322	ERDS2TJ104	1/4W 100K
R323	ERDS2TJ184T	1/4W 180K
R324, 325	ERDS2TJ683	1/4W 68K
R326	ERDS2TJ562	1/4W 5.6K
R327	ERDS2TJ104	1/4W 100K
R329	ERDS2TJ222	1/4W 2.2K
R330	ERDS2TJ683	1/4W 68K
R331	ERDS2TJ563	1/4W 56K
R332	ERDS2TJ332	1/4W 3.3K
R334	ERDS2TJ104	1/4W 100K
R335	ERDS2TJ682T	1/4W 6.8K
R336	ERDS2TJ822	1/4W 8.2K
R337	ERDS2TJ104	1/4W 100K
R339	ERDS2TJ272T	1/4W 2.7K
R340, 341	ERDS2TJ563	1/4W 56K
R342	ERDS2TJ272T	1/4W 2.7K
R344	ERDS2TJ104	1/4W 100K
R345	ERDS2TJ822	1/4W 8.2K
R346	ERDS2TJ183T	1/4W 18K
R347	ERDS2TJ224T	1/4W 220K

Ref. No.	Part No.	Values & Remarks
R349	ERDS2TJ272T	1/4W 2.7K
R350	ERDS2TJ563	1/4W 56K
R401, 402	ERDS2TJ104	1/4W 100K
R403, 404	ERDS2TJ822	1/4W 8.2K
R405, 406	ERDS2TJ393	1/4W 39K
R407, 408	ERDS2TJ561	1/4W 560
R409-411	ERDS2TJ103	1/4W 10K
R413, 414	ERDS2TJ104	1/4W 100K
R501, 502	ERDS2TJ153	1/4W 15K
R503, 504	ERDS2TJ104	1/4W 100K
R511, 512	ERDS2TJ104	1/4W 100K
R513, 514	ERDS2TJ562	1/4W 5.6K
R515, 516	ERDS2TJ104	1/4W 100K
R517	ERDS2TJ334	1/4W 330K
R519, 520	ERDS2TJ100	1/4W 10
R521, 522	ERDS1FVJ100T	1/2W 10 ⚠
R523-526	ERDS2TJ181T	1/4W 180
R527	ERDS2TJ223	1/4W 22K
R528	ERDS2TJ472	1/4W 4.7K
R529	ERDS2TJ122	1/4W 1.2K
R550	ERDS2TJ332	1/4W 3.3K
R551, 552	ERDS2TJ153	1/4W 15K
R555, 556	ERDS2TJ472	1/4W 4.7K
R557-559	ERDS2TJ103	1/4W 10K
R560	ERDS2TJ122	1/4W 1.2K
R561	ERDS2TJ271	1/4W 270
R562	ERDS2TJ222	1/4W 2.2K
R563, 564	ERDS2TJ102	1/4W 1K
R565, 566	ERDS1FVJ4R7T	1/2W 4.7 ⚠
R571, 572	ERDS2TJ682T	1/4W 6.8K
R575	ERDS2TJ333	1/4W 33K
R576	ERDS2TJ153	1/4W 15K
R577	ERDS2TJ103	1/4W 10K
R578	ERDS1FVJ560T	1/2W 56 ⚠
R579	ERDS1FVJ680T	1/2W 68 ⚠
R580	ERD25FJ470	1/4W 47 ⚠
R601, 602	ERDS2TJ103	1/4W 10K
R603, 604	ERDS2TJ222	1/4W 2.2K
R605	ERDS2TJ152	1/4W 1.5K
R606	ERDS2TJ182	1/4W 1.8K
R607	ERDS2TJ332	1/4W 3.3K
R608	ERDS2TJ222	1/4W 2.2K
R609	ERDS2TJ152	1/4W 1.5K
R610	ERDS2TJ123	1/4W 12K
R611	ERDS2TJ682T	1/4W 6.8K
R612	ERDS2TJ123	1/4W 12K
R613	ERDS2TJ821	1/4W 820
R614	ERDS2TJ271	1/4W 270
R615	ERDS2TJ391	1/4W 390
R616	ERDS2TJ473	1/4W 47K
R617	ERDS2TJ223	1/4W 22K
R618	ERDS2TJ272T	1/4W 2.7K

Ref. No.	Part No.	Values & Remarks
R619	ERDS2TJ680T	1/4W 68
R620	ERDS2TJ103	1/4W 10K
R621, 622	ERDS2TJ102	1/4W 1K
R623-625	ERDS2TJ104	1/4W 100K
R626	ERDS2TJ473	1/4W 47K
R627	ERDS2TJ472	1/4W 4.7K
R628	ERDS2TJ223	1/4W 22K
R629	ERDS2TJ562	1/4W 5.6K
R630	ERDS2TJ224T	1/4W 220K
R631	ERDS2TJ151	1/4W 150
R632	ERDS2TJ105T	1/4W 1M
R633	ERDS2TJ102	1/4W 1K
R634	ERDS2TJ333	1/4W 33K
R635, 636	ERDS2TJ153	1/4W 15K
R637	ERDS2TJ104	1/4W 100K
R638	ERDS2TJ222	1/4W 2.2K
R639	ERDS2TJ103	1/4W 10K
R640	ERDS2TJ224T	1/4W 220K
R641, 642	ERDS2TJ101	1/4W 100
R643	ERDS2TJ104	1/4W 100K
R644-646	ERDS2TJ102	1/4W 1K
R647, 648	ERDS2TJ101	1/4W 100
R649	ERDS2TJ221	1/4W 220
R650	ERDS2TJ103	1/4W 10K
R651	ERDS2TJ102	1/4W 1K
R652	ERDS2TJ104	1/4W 100K
R653	ERDS2TJ221	1/4W 220
R654	ERDS2TJ332	1/4W 3.3K
R655	ERDS2TJ103	1/4W 10K
R656	ERDS2TJ102	1/4W 1K
R657, 658	ERDS2TJ3R3T	1/4W 3.3
R700	ERDS1FVJ221T	1/2W 220 ⚠
R701	ERDS1FVJ101T	1/2W 100 ⚠
R702	ERDS2TJ101	1/4W 100
R703, 704	ERDS1FVJ221T	1/2W 220 ⚠
R705	ERDS2TJ152	1/4W 1.5K
R707	ERDS1FVJ100T	1/2W 10 ⚠
R708	ERDS2TJ152	1/4W 1.5K
R709	ERDS2TJ471	1/4W 470
R711, 712	ERDS2TJ3R3T	1/4W 3.3 ⚠
R713, 714	ERDS2TJ152	1/4W 1.5K ⚠
R715	ERDS2TJ154	1/4W 150K
R716	ERDS2TJ103	1/4W 10K
R717	ERDS2TJ221	1/4W 220
R718	ERDS2TJ222	1/4W 2.2K
R723	ERDS1FVJ121T	1/2W 120 ⚠
R724	ERDS2TJ120T	1/4W 12
R725	ERDS2TJ122	1/4W 1.2K
R801, 802	ERDS2TJ103	1/4W 10K
R803, 804	ERDS2TJ563	1/4W 56K
R805, 806	ERDS2TJ103	1/4W 10K
R807-810	ERDS2TJ681	1/4W 680

Ref. No.	Part No.	Values & Remarks
R811, 812	ERDS2TJ563	1/4W 56K
R813-816	ERDS2TJ103	1/4W 10K
R817, 818	ERDS2TJ394	1/4W 390K
R819-822	ERDS2TJ272T	1/4W 2.7K
R825-828	ERDS2TJ563	1/4W 56K
R829, 830	ERDS2TJ222	1/4W 2.2K
R831, 832	ERDS2TJ392T	1/4W 3.9K
R833, 834	ERDS2TJ331	1/4W 330
R835, 836	ERDS2TJ181T	1/4W 180
R837, 838	ERDS2TJ393	1/4W 39K
R839, 840	ERDS2TJ821	1/4W 820
R841	ERDS2TJ332	1/4W 3.3K
R842	ERDS2TJ223	1/4W 22K
R843, 844	ERDS2TJ105T	1/4W 1M
R845	ERDS2TJ104	1/4W 100K
R847, 848	ERDS2TJ105T	1/4W 1M
R851-854	ERDS2TJ224T	1/4W 220K
R901	ERDS2TJ182	1/4W 1.8K
R902	ERDS2TJ471	1/4W 470
R903-905	ERDS2TJ103	1/4W 10K
R907	ERDS2TJ824	1/4W 820K
R908	ERDS2TJ102	1/4W 1K
R909	ERDS1FVJ680T	1/2W 68 ⚠
R910	ERDS2TJ102	1/4W 1K
R911	ERDS2TJ392T	1/4W 3.9K
R912, 913	ERDS2TJ470	1/4W 47
R914	ERDS2TJ100	1/4W 10
R915, 916	ERDS2TJ561	1/4W 560
R917	ERDS2TJ471	1/4W 470
R918	ERDS2TJ470	1/4W 47
R920	ERDS2TJ470	1/4W 47
R922	ERDS1FVJ820T	1/2W 82 ⚠
R923	ERDS2TJ392T	1/4W 3.9K
		CAPACITORS
C200	ECBT1H102KB5	50V 1000P
C215, 216	ECBT1E1032F	25V 0.01U
C217	ECBT1H330J5	50V 33P
C231, 232	ECEA1HPS3R3	50V 3.3U
C233	ECFR1E823KR	25V 0.082U
C234	ECFR1E223KR	25V 0.022U
C235	ECEA1CPS100	16V 10U
C241, 242	ECBT1E1032F	25V 0.01U
C243, 244	ECEA1CPS100	16V 10U
C271	ECBT1H102KB5	50V 1000P
C272	ECEA1HPS3R3	50V 3.3U
C273, 274	ECBT1H101KB5	50V 100P
C275	ECEA1HPS3R3	50V 3.3U
C301, 302	ECEA1EK3R3B	25V 3.3U
C303, 304	ECEA1HKR47	50V 0.47U
C305, 306	ECQV1H104JZ3	50V 0.1U

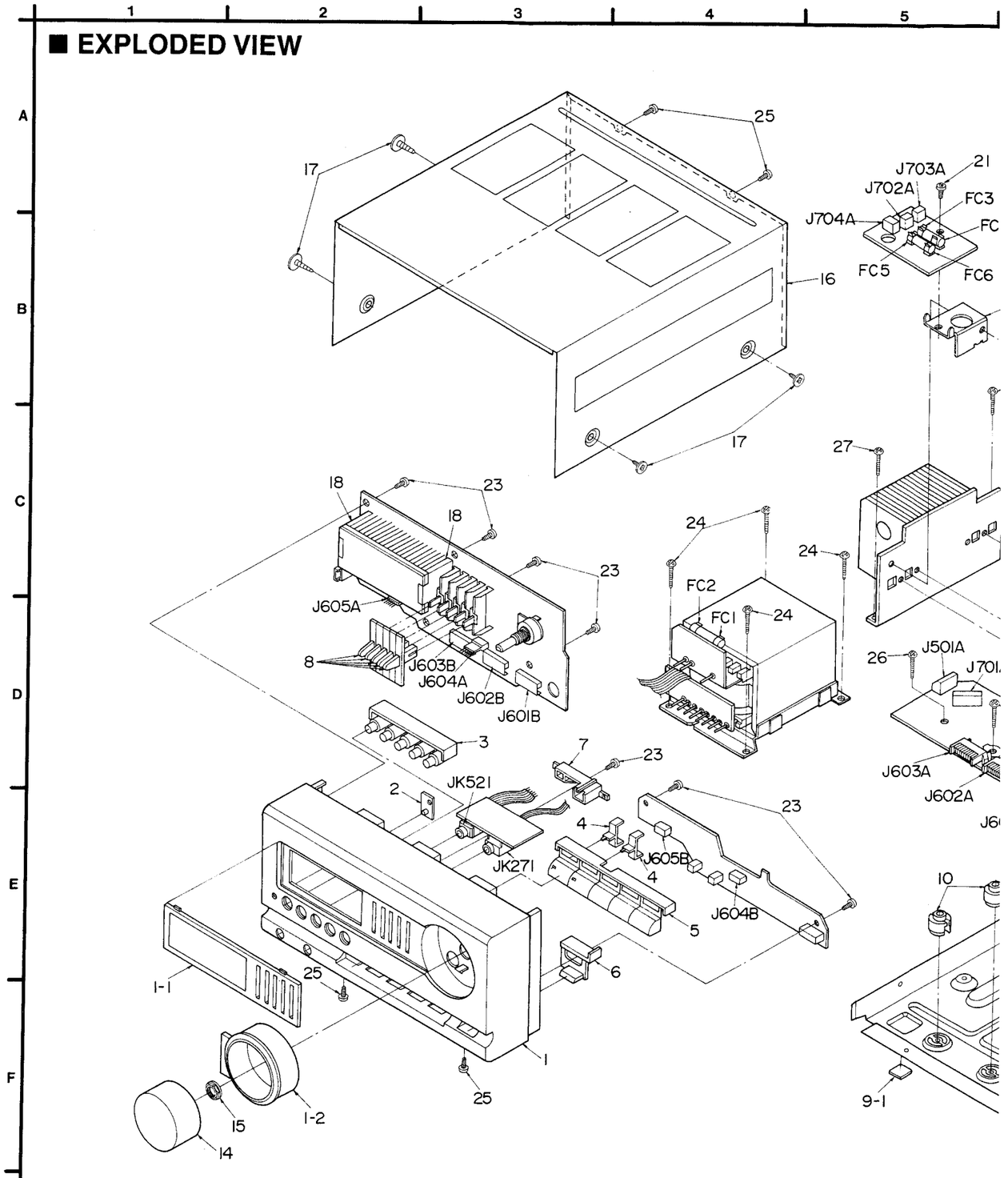
Ref. No.	Part No.	Values & Remarks
C307, 308	ECEA1HKR22B	50V 0.22U
C309, 310	ECFR1E223KR	25V 0.022U
C311, 312	ECFR1E563KR	25V 0.056U
C313, 314	ECFR1E562KR	25V 5600P
C315, 316	ECFR1E123KR	25V 0.012U
C317, 318	ECBT1C152JR5	16V 1500P
C319, 320	ECFR1E392KR	25V 3900P
C321, 322	ECBT1H561KB5	50V 560P
C323, 324	ECBT1H821KB5	50V 820P
C327, 328	ECEA1AK330B	10V 33U
C331	ECBT1H100J5	50V 10P
C332, 333	ECBT1H561KB5	50V 560P
C334, 335	ECEA1HK2R2B	50V 2.2U
C336, 337	ECFR1E152KR	25V 1500P
C338, 339	ECFR1E562KR	25V 5600P
C340, 341	ECEA1HK2R2B	50V 2.2U
C342, 343	ECFR1E223KR	25V 0.022U
C344, 345	ECFR1E333KR	25V 0.033U
C346	ECEA1HK2R2B	50V 2.2U
C351, 352	ECEA1CK470	16V 47U
C401, 402	ECEA1CPS100	16V 10U
C403, 404	ECBT1H270J5	50V 27P
C405, 406	ECFR1E104KR	25V 0.1U
C407, 408	ECEA1HPS3R3	50V 3.3U
C409, 410	ECEA1HKR22B	50V 0.22U
C412	ECBT1H470J5	50V 47P
C413	ECEA1CK100B	16V 10U
C414	ECBT1E223ZF	25V 0.022U
C501, 502	ECEA1EN3R3SB	25V 3.3U
C511, 512	ECBT1H820KB5	50V 82P
C513, 514	ECEA1CPS100	16V 10U
C515, 516	ECBT1H150J5	50V 15P
C517	ECEA1EN220SB	25V 22U
C518	ECEA1EN100SB	25V 10U
C519, 520	ECKT1H223ZF	50V 0.022U
C521, 522	ECBT1H821KB5	50V 820P
C523	ECBT1E223ZF	25V 0.022U
C524	ECEA1CK100B	16V 10U
C550	ECEA1CK100B	16V 10U
C551, 552	ECEA1HPS010	50V 1U
C553, 554	ECEA1CU101	16V 100U
C555	ECEA1EU221	25V 220U
C556	ECBT1E223ZF	25V 0.022U
C557, 558	ECEA1EU101	25V 100U ⚠
C559, 560	ECFR1E473KR	25V 0.047U
C561	ECEA1HK010B	50V 1U ⚠
C563, 564	ECBT1C272KR5	16V 2700P
C571	ECEA1CK100B	16V 10U
C601	ECEA0JK220B	6.3V 22U
C602	ECBT1E103ZF	25V 0.01U
C603	ECEA0JU101B	6.3V 100U
C604	ECBT1E103ZF	25V 0.01U

Ref. No.	Part No.	Values & Remarks
C605	ECEA0JK470	6.3V 47U
C606	ECEA1HK010B	50V 1U
C607, 608	ECEA1HK3R3	50V 3.3U
C609	ECQV1H104JZ3	50V 0.1U
C610	ECEA1HK4R7	50V 4.7U
C611	ECBT1H221KB5	50V 220P
C612, 613	ECBT1H331KB5	50V 330P
C614	ECKR1H473ZF5	50V 0.047U
C615	ECEA1HK010B	50V 1U
C620	ECEA0JK470	6.3V 47U
C621	ECEA0JKS470	6.3V 47U
C701	ECKW2H103PE	500V 0.01U ⚠
C703	ECEA45V472YE	45V 4700U
C704	ECEA1HU222E	50V 2200U
C705, 706	ECEA1HU330	50V 33U
C707	ECEA1HK010B	50V 1U
C708	ECBT1E103ZF	25V 0.01U
C709	ECEA1CK470	16V 47U
C711, 712	ECKR1H103ZF5	50V 0.01U ⚠
C713, 714	ECEA1CU101	16V 100U
C720	ECKR1H103ZF5	50V 0.01U
C721-723	ECEA1CK100B	16V 10U
C801, 802	ECEA1HPS2R2	50V 2.2U
C803, 804	ECEA1HKR47	50V 0.47U
C805-812	ECEA1HPS2R2	50V 2.2U
C813, 814	ECEA1HPS010	50V 1U
C815, 816	ECFR1E223KR	25V 0.022U
C819, 820	ECFR1E183KR	25V 0.018U
C821-824	ECFR1E822KR	25V 8200P
C827, 828	ECEA1HPS010	50V 1U
C829, 830	ECEA1HKR68	50V 0.68U
C831, 832	ECEA1HKR47	50V 0.47U
C833, 834	ECEA1HPS3R3	50V 3.3U
C851-854	ECBT1H101KB5	50V 100P
C901	ECBT1E103ZF	25V 0.01U
C902	ECEA0JU101B	6.3V 100U
C903, 904	ECEA1CK470	16V 47U
C907, 908	ECBT1H102KB5	50V 1000P

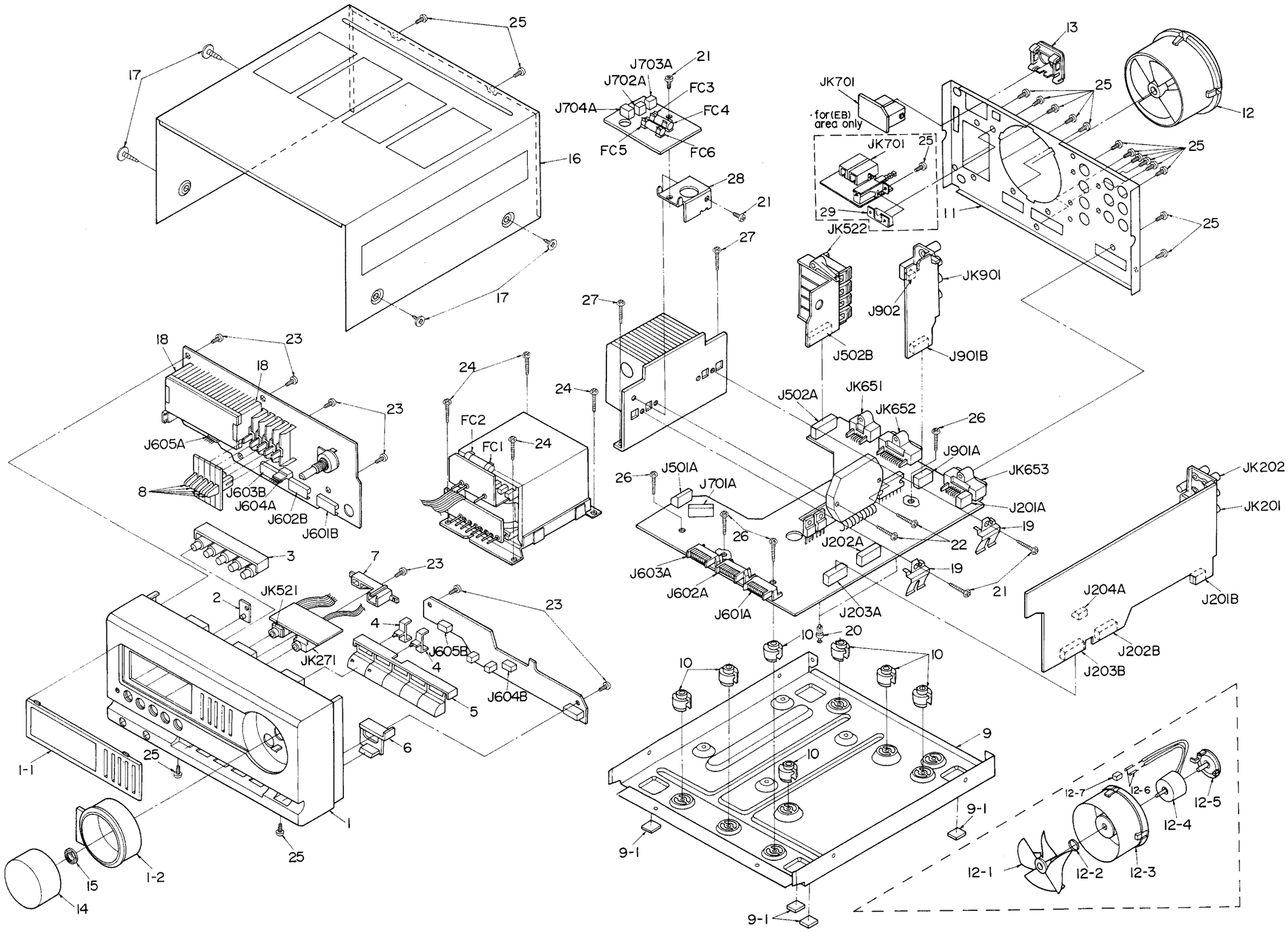
Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RFKGUCH9E-K	FRONT PANEL ASS'Y	K(E, EI)
1	RFKGUCH9EB-H	FRONT PANEL ASS'Y	H(EB)
1-1	RKW0082-1	FL PANEL	K(E, EI)
1-1	RKW0082A-1	FL PANEL	H(EB)
1-2	RGW0065	VOLUME ORNAMENT	K(E, EI)
1-2	RGW0065-H	VOLUME ORNAMENT	H(EB)
2	RGL0078	PANEL LIGHT	
3	RGU0315	BALANCE BUTTON	K(E, EI)
3	RGU0315-H	BALANCE BUTTON	H(EB)
4	RGL0075	PANEL LIGHT	
5	RGU0314A	SELECTOR BUTTON	
6	RGU0313	S. DYNAMIC SOUND BUTTON	
7	RMN0066	HOLDER	
8	RGV0039	E. Q. LEVEL KNOB	
9	RFKJUCH9N	BOTTOM BOARD	
9-1	SHG1654	FOOT	
10	SHE170-3	HOLDER	
11	RGR0075A-C	REAR PANEL	K(E, EI)
11	RGR0075B-F	REAR PANEL	H(EB)
12	SYE1128-3	FAN ASS'Y	
12-1	SHE232	FAN	
12-2	SUS271	SPRING	
12-3	SHE233	FAN CASE	
12-4	MDN-4RB4MRC	MOTOR	
12-5	SHE234	CAP	
12-6	SJT783	TERMINAL	
12-7	SJS5215	SOKET(2P)	
13	SJS9231A	AC INLET COVER	K(E, EI)
13	SJVD0203A	AC INLET COVER	H(EB)
14	SBN1252-1	MAIN VOLUME KNOB	K(E, EI)
14	SBN1252-2	MAIN VOLUME KNOB	H(EB)
15	SNE4021-1	NUT	
16	RKM0105A-K	CABINET	K(E, EI)
16	RKM0105A-H	CABINET	H(EB)
17	RHD30007	SCREW	
18	RMN0063	FL HOLDER	
19	SUS894-1	ANGLE	
20	SHR411	LATCH	
21	XTB3+8JFZ	SCREW	
22	XTB3+16JFZ	SCREW	
23	XTBS26+8J	SCREW	
24	XTBS3+8FFZ1	SCREW	
25	XTBS3+8JFZ1	SCREW	
26	XTB3+12J	SCREW	
27	XTB3+14J	SCREW	
28	RMN0082	ANGLE	
29	RMN0090	ANGLE	(EB)
		PACKING MATERIAL (SYSTEM)	

Ref. No.	Part No.	Part Name & Description	Remarks
P1	RPG0690	PACKING CASE (SYSTEM)	(E)
P1	RPG0582	PACKING CASE (SYSTEM)	(EB)
P1	RPG0689	PACKING CASE (SYSTEM)	(EI)
P2	RPN0402	ACCESSORIES BOX	
P3	RPG0427	PACKING CASE (TUNER/CD)	
P4	RPG0426	PACKING CASE (AMP/DECK)	
P5	RPN0299A-2	PAD, FRONT (L) (TUNER/CD)	
P6	RPN0299B-2	PAD, FRONT (R) (TUNER/CD)	
P7	RPN0299C-2	PAD, REAR (L) (TUNER/CD)	
P8	RPN0299D-2	PAD, REAR (R) (TUNER/CD)	
P9	RPN0298A-2	PAD, FRONT (L) (AMP/DECK)	
P10	RPN0298B-2	PAD, FRONT (R) (AMP/DECK)	
P11	RPN0298C-2	PAD, REAR (L) (AMP/DECK)	
P12	RPN0298D-2	PAD, REAR (R) (AMP/DECK)	
P13	SPPS28	PROTECTION COVER	
P14	XZB35X34C04	POLYETHYLENE COVER	
		ACCESSORIES (SYSTEM)	
A1	RQF0671	INSTRUCTIONS MANUAL ASS'Y	(E)
A1	RQF0672	INSTRUCTIONS MANUAL ASS'Y	(EB)
A1	RQF0815	INSTRUCTIONS MANUAL ASS'Y	(EI)
A1-1	RFKSUCH9E-K	INSTRUCTIONS MANUAL	(E)
A1-1	RQT0705-B	INSTRUCTIONS MANUAL	(EB)
A1-1	RQT0726-V	INSTRUCTIONS MANUAL	(EI)
A1-2	RQA0013	WARRANTY CARD	
A1-3	RQCB0169	SERVICENTOR LIST	
A2	RAK-SC302E	REMOTE-CONTROLLER	
A2-1	RKKD008	BATTERY COVER	
A3	REC201A25Q	SP CORD	
A4	REX9152	FLAT CABLE (TUNER AMP)	
A5	REX9144	FLAT CABLE (CD AMP)	
A6	REX9147A	FLAT CABLE (DECK AMP)	
A7	SFDAC05E03	AC POWER CORD	⚠(E, EI)
A7	SJA188	AC POWER CORD (AMP-TUNER)	⚠(EB)
A8	SJA193	AC POWER CORD (Household)	⚠(EB)
A9	SPB1163T	AM LOOP ANTENNA	
A9-1	SMA233-1M	HOLDER	
A9-2	XTN3+10AFZ	SCREW	
A10	SSA270M	FM ANTENNA	
A11	RKF0127D-K	BACK COVER (AMP)	K(E, EI)
A11	RKF0127D-H	BACK COVER (AMP)	H(EB)
A12	RKF0127E-K	BACK COVER (DECK)	K(E, EI)
A12	RKF0127E-H	BACK COVER (DECK)	H(EB)
A13	RKF0142C-K	BACK COVER (CD)	K(E, EI)
A13	RKF0142C-H	BACK COVER (CD)	H(EB)
A14	RKF0142B-K	BACK COVER (TUNER)	K(E, EI)
A14	RKF0142B-H	BACK COVER (TUNER)	H(EB)
A15	RMQ0173	HEADPHONES CORD CLAMP	
A16	R03	BATTERY	
A17	RQCA0062	CAUTION NOTE for LOCK SHAFT	
A18	SJP9009	ATTACHMENT PLUG	⚠(EB)

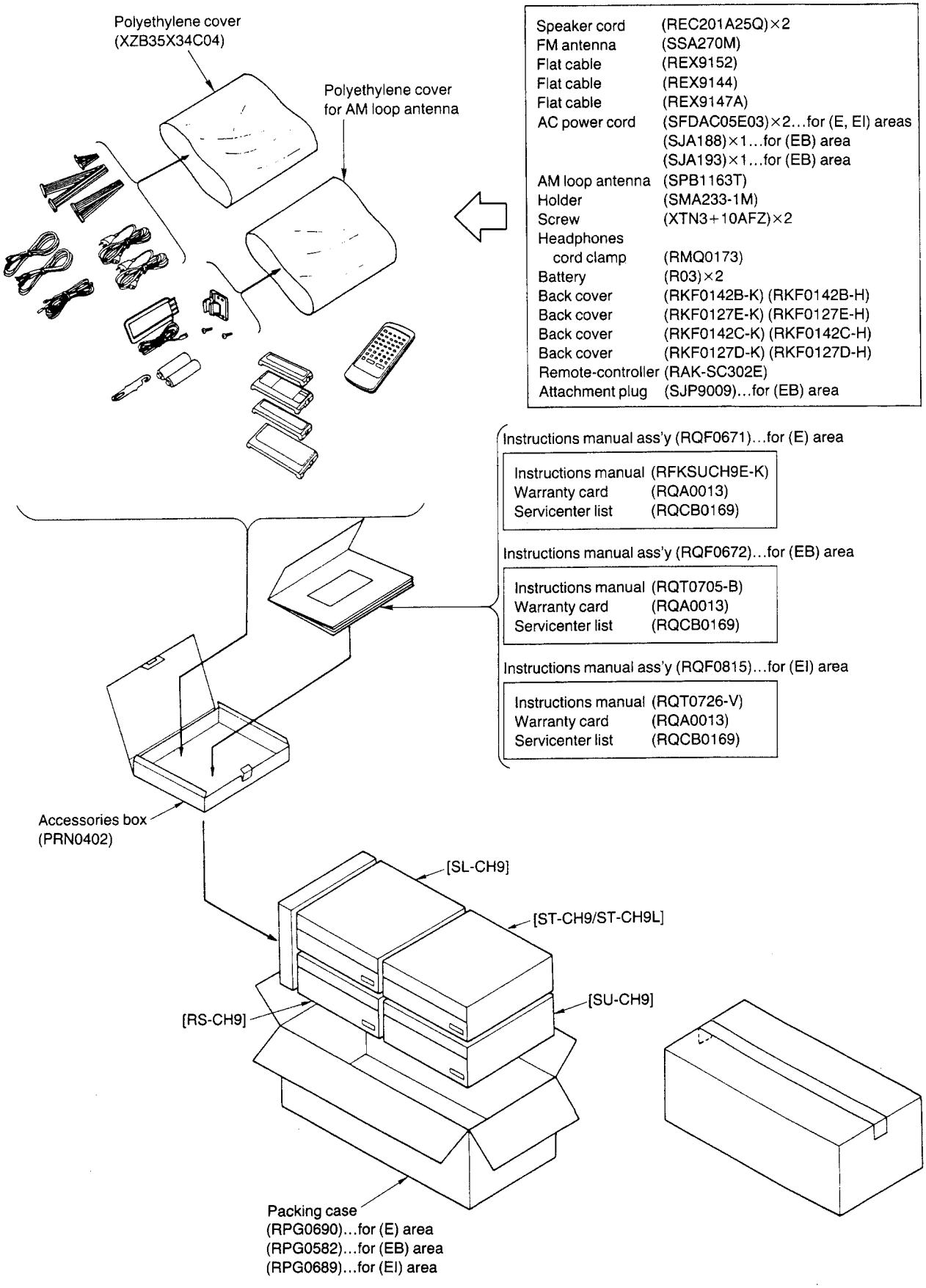
■ EXPLODED VIEW



■ EXPLODED VIEW



■ PACKING (for System: SC-CH9)



Speaker cord	(REC201A25Q)×2
FM antenna	(SSA270M)
Flat cable	(REX9152)
Flat cable	(REX9144)
Flat cable	(REX9147A)
AC power cord	(SFDAC05E03)×2...for (E, EI) areas
	(SJA188)×1...for (EB) area
	(SJA193)×1...for (EB) area
AM loop antenna	(SPB1163T)
Holder	(SMA233-1M)
Screw	(XTN3+10AFZ)×2
Headphones cord clamp	(RMQ0173)
Battery	(R03)×2
Back cover	(RKF0142B-K) (RKF0142B-H)
Back cover	(RKF0127E-K) (RKF0127E-H)
Back cover	(RKF0142C-K) (RKF0142C-H)
Back cover	(RKF0127D-K) (RKF0127D-H)
Remote-controller	(RAK-SC302E)
Attachment plug	(SJP9009)...for (EB) area

Instructions manual ass'y (RQF0671)...for (E) area

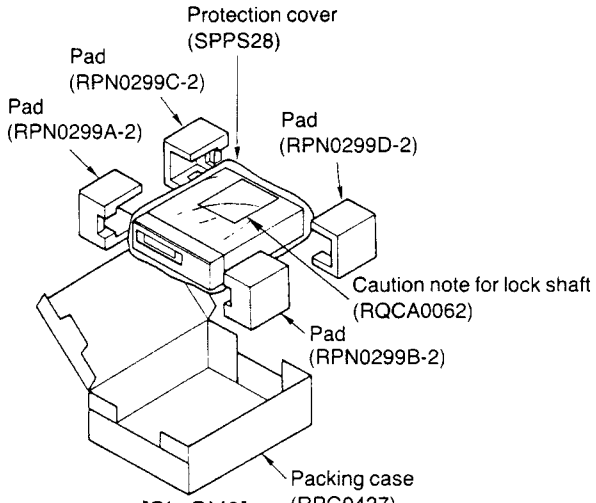
Instructions manual	(RFKSUCH9E-K)
Warranty card	(RQA0013)
Servicenter list	(RQCB0169)

Instructions manual ass'y (RQF0672)...for (EB) area

Instructions manual	(RQT0705-B)
Warranty card	(RQA0013)
Servicenter list	(RQCB0169)

Instructions manual ass'y (RQF0815)...for (EI) area

Instructions manual	(RQT0726-V)
Warranty card	(RQA0013)
Servicenter list	(RQCB0169)



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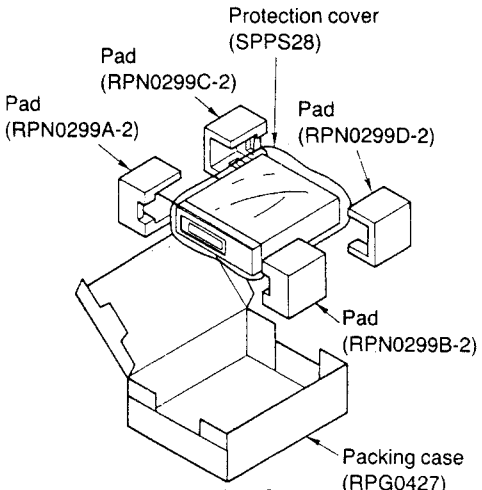

[ST-CH9]
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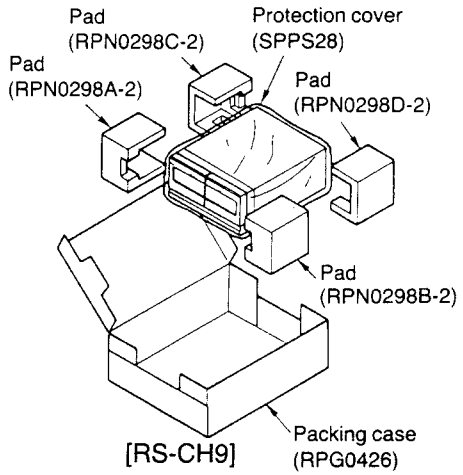

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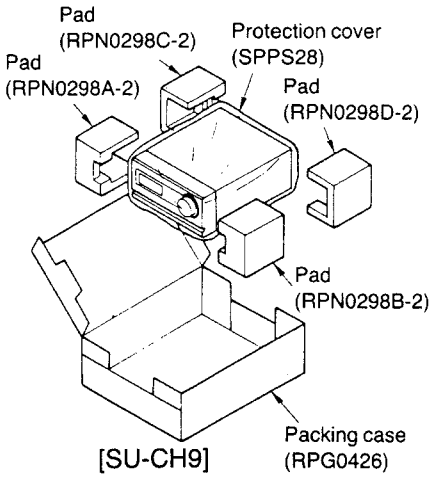

[SU-CH9]

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